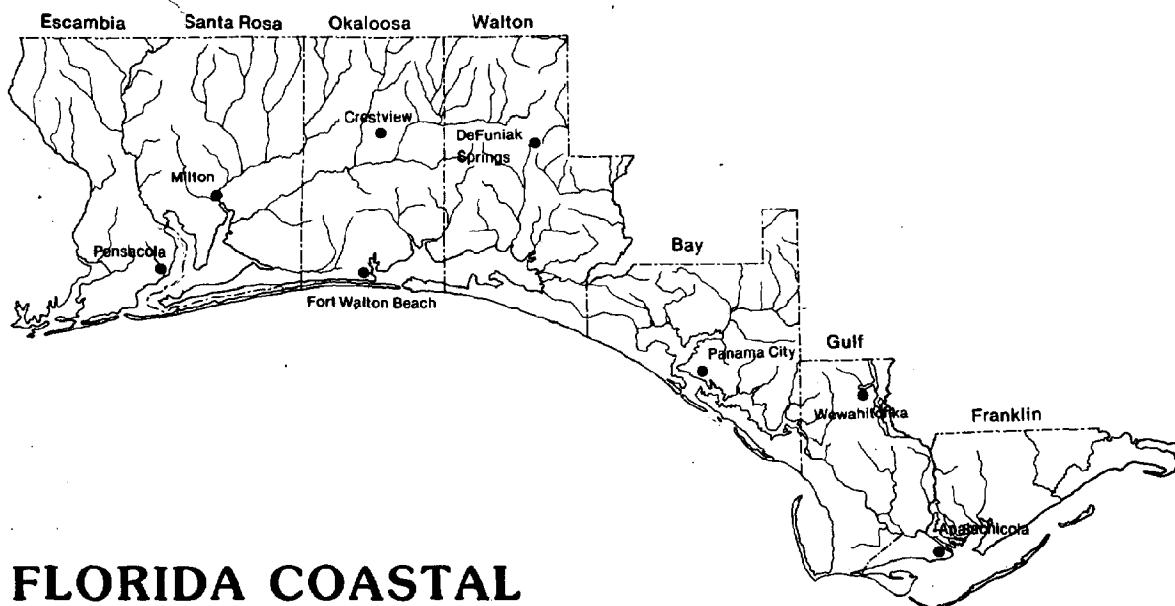


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FLORIDA COASTAL ECOLOGICAL CHARACTERIZATION:

A Socioeconomic Study of the Northwestern Region

VOLUME II
DATA APPENDIX Part 2

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FLORIDA COASTAL ECOLOGICAL CHARACTERIZATION: A
SOCIOECONOMIC STUDY OF THE NORTHWESTERN REGION

Volume II
DATA APPENDIX
Part 2

Edited by

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U.S. Department of the Interior
Washington, DC 20240

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PREFACE

The purpose of this socioeconomic characterization study is to compile and synthesize information from existing sources about the social and economic characteristics of the northwestern coastal region of Florida, which is made up of Charlotte, Collier, DeSoto, Hillsborough, Lee, Manatee, Monroe, Pasco, Pinellas, and Sarasota Counties. This report and the data appendix should prove useful for coastal planning and management; it is one in a series of characterizations of coastal socioeconomic systems produced by the U.S. Fish and Wildlife Service. The series describes the components and interrelationships among complex processes that include population and demographic characteristics, mineral production, multiple-use conflicts, recreation and tourism, agricultural production, sport and commercial fishing, transportation, industrial and residential development, and environmental issues and regulations.

This study originally was under contract with the NANEX Systems Corporation, Crestview, Florida. The corporation is responsible for the compilations and accuracy of the Data Appendices and their lists of references. Most of the first drafts of the various chapters were prepared in 1980. Only a few of the sections of some of the reports have since been updated.

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ABBREVIATIONS

A/C	Air conditioning
A F B	Air Force Base
AFDC	Aid to families with dependent children
AGR	Agriculture
Ave	Avenue
bb1	Barrel, barrels
Btu	British thermal unit
BOD	Biochemical oxygen demand
Co	Company
Corp	Corporation
Ct	Court
cwt	Hundredweight
D	Data withheld to avoid disclosure of individual establishments
dB	Decibel
Dr	Drive
DRI	Development of regional impact
du	Dwelling units
E	Endangered
E	East
EIR	Environmental Issues and Regulations
EMP	Employment
ENE	East northeast
EPA	Environmental Protection Agency
est	Estimate
FCOLI	Fecal coliform
ft ₂	Foot, feet
ft ₃	Square foot, square feet
ft ³	Cubic foot, cubic feet
FSH	Fish
FY	Fiscal year
gal	Gallon, gallons
GFWFC	Game and Fresh Water Fish Commission
GW	Ground water
ha	Hectare, hectares
H H	Head of household
Hwy	Highway
Inc	Incorporated
Jct	Junction
km	Kilometer
kWh	Kilowatthour
kV	Kilovolt
lb	Pound, pounds
lf	Landfill
lin ft	Linear foot, linear feet
LPG	Liquid petroleum gas
LU	Land use
Ltd	Limited
m/day	Meters per day
Mcf	Million cubic feet

Mgal/d	Million gallons per day
mg/l	Milligrams per liter
MHP	Mobile home park
mi ²	Mile, miles
mi ²	Square mile, square miles
misc.	Miscellaneous
mm	Millimeter
MP	Minerals Production
MW	Monitoring wells, megawatts
MWh	Megawatthours
N.	North
N.A.	Not applicable
N.D.	No data
NE.	Northeast
NNW.	North northwest
NRP	No reported production
NTSB	National Transportation Safety Board
NW.	Northwest
oz	Ounce
POP	Population
ppm	Parts per million
PU	Public utilities
Rd.	Road
RR.	Railroad
Rt.	Route
R/T	Recreation and Tourism
RV	Recreational vehicle
S.	South
SCI	Special category item
SD	Subdivision
SE.	Southeast
SER	Services (health)
SIC	Standard Industrial Code
s1f	Sanitary landfill
SR	State road
SSC	Species of special concern
St.	Street
STP	Sewage treatment plant
SW.	Southwest
SW	Surface water
T	Threatened
tbb1	Thousand barrels
TCOLI	Total coliform
TP	Trailer park
TRANS	Transportation
TSS	Total suspended solids
ug/m ²	Micrograms per square meter
UR	Under review
W.	West
WLA	Waste load allocation
yd ³	Yard, yards
yd ³	Cubic yards
yd ³ /d	Cubic yards per day

SYMBOLS

\$	Dollar, dollars
%	Percent
"	Inch, inches
#	Number
&	And

METRIC-ENGLISH EQUIVALENTS

Distance

1 cm = 0.39 in
1 m = 39.38 in
1 km = 0.62 mi

1 in = 2.54 cm
1 ft = 0.30 m
1 yd = 0.91 m
1 mi = 1.61 km

Area

1 m² = 1.2 yd²
1 km² = 0.39 mi²
1 ha = 2.5 acres

1 ft² = 0.09 m²
1 yd² = 0.83 m²
1 acre = 0.40 ha
1 mi² = 2.59 km²

Weight

1 g = 0.035 oz
1 kg = 2.20 lb
1 mt (1,000 kg) = 1.1 t (2,204.6 lb)

1 oz = 28.35 g
1 lb = 453.60 g
1 lb = 0.45 kg
1 t = 0.91 mt

Volume

1 ml = 0.03 fl oz
1 liter = 2.1 pt
1 liter = 1.06 qt
1 bbl = 42 gal
1 m³ = 35 ft³
1 m³ = 1.3 yd³

1 fl oz = 29.57 ml
1 pt = 0.47 liter
1 qt = 0.95 liter
1 gal = 3.79 liter
1 ft³ = 0.03 m³
1 yd³ = 0.76 m³

Temperature

C° = 5/9 (F° - 32)

F° = 9/5C° + 32

PUBLIC UTILITIES (PU)

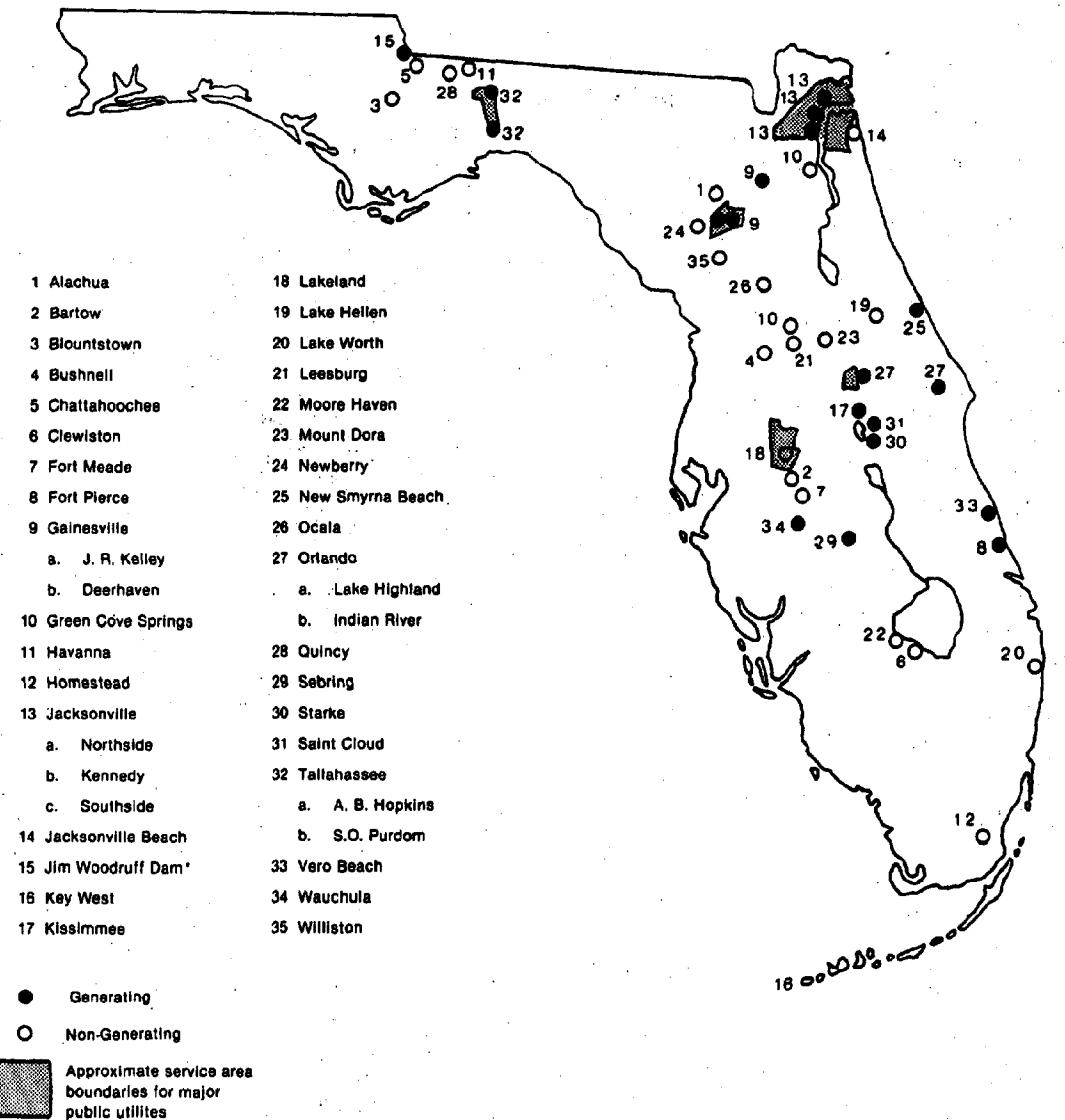


Figure 1. Publicly owned utilities (Florida Public Service Commission 1979).

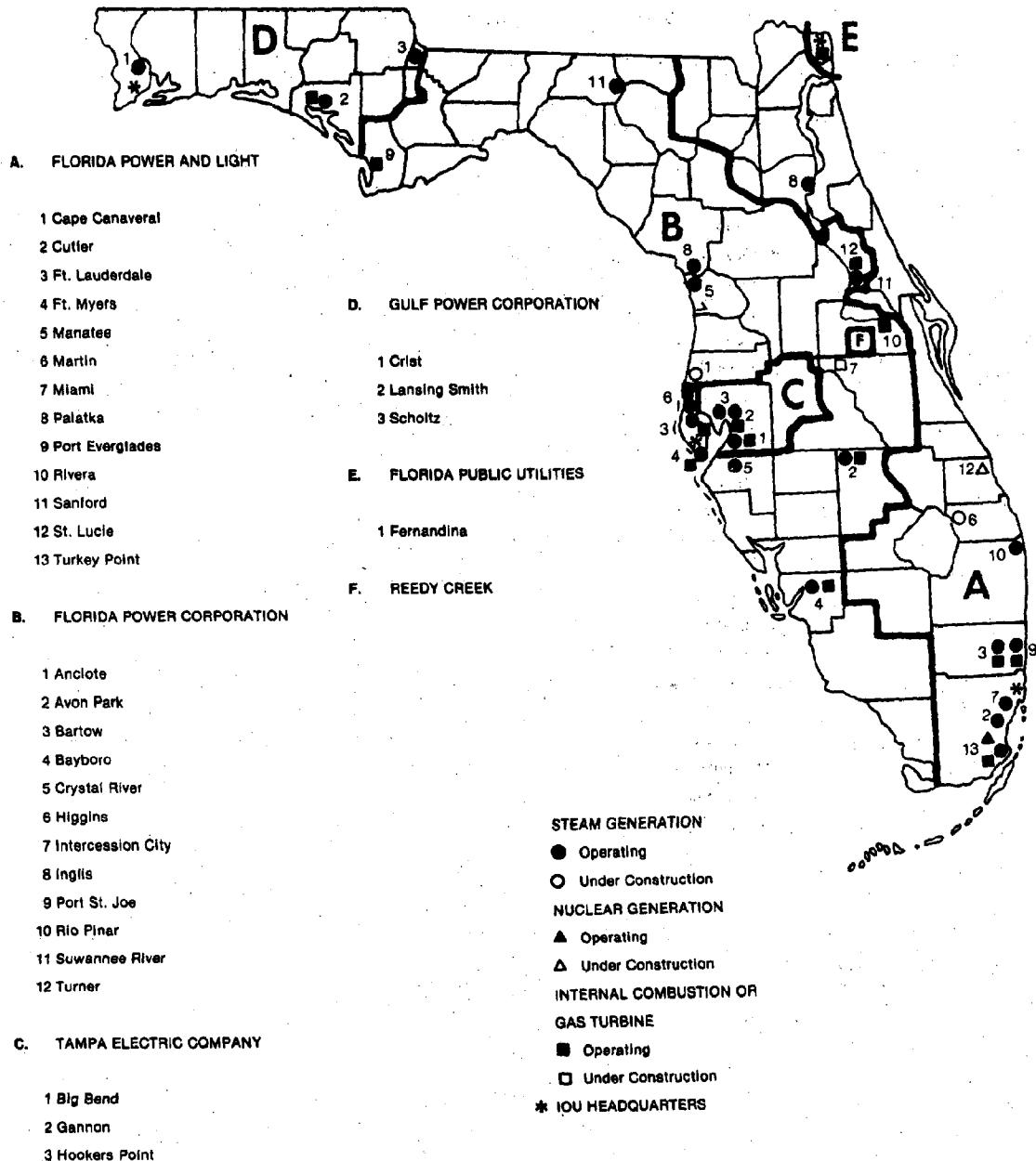


Figure 2. Privately owned utilities (Florida Public Service Commission 1979).

Table PU 1. Counties served by electrical utilities in 1979 (Florida Public Service Commission, Research and Management Studies Department 1980).

County	Florida Power Corporation	Gulf Power Corporation	Choctawhatchee ^a	Escambia ^a River
Bay	X	X		
Escambia		X		X
Franklin	X			
Gulf	X			
Okaloosa		X	X	
Santa Rosa		X	X	
Walton		X	X	X

County	Alabama Power	Gulf ^a Coast	Talquin ^a
Bay			
Escambia			
Franklin			
Gulf			X
Okaloosa			
Santa Rosa		X	
Walton			X

^a Non-generating rural electric cooperatives.

Table PU 2. Net generation, amount, and price of fuel consumed, and British thermal unit (Btu) per kilowatt-hour (kWh) for steam-electric plants in 1955 (U.S. Federal Power Commission ca. 1965c).

Generating plant	Net generation (million kWh)	Fuel consumed in 1955			
		1000 tons	Coal \$ Cost per ton (\$)	Oil 1000 bbl \$ Cost per bbl (\$)	
Florida Power Corp.					
Avon Park	242.00	0	0	436.50	2.51
Bayboro	349.90	0	0	745.50	2.16
Higgins	817.60	0	0	1,435.00	2.16
Inglis	204.70	0	0	471.20	2.24
Suwanee River	381.10	0	0	476.80	2.65
G.E. Turner	230.10	0	0	450.90	2.34
Florida Power and Light Co.					
Cutler	1,418.70	0	0	2,480.80	2.30
Lauderdale	269.40	0	0	620.20	2.23
Miami	279.00	0	0	608.20	2.24
Miami Beach	155.20	0	0	318.30	2.27
Palatka	252.50	0	0	490.90	2.31
Rivera	695.50	0	0	1,263.80	2.20
Sarasota	216.30	0	0	438.70	2.29

Continued

Table PU 2. Continued.

Generating plant	Fuel consumed in 1955			Average Btu per kWh
	Million ft ³	Gas	Cost per 1000 ft ³ (\$)	
Florida Power Corp.				
Avon Park	0	0		11,370
Bayboro	0	0		13,465
Higgins	0	0		11,100
Inglis	0	0		14,575
Suwanee River	0	0		11,885
G.E. Turner	0	0		12,265
Florida Power and Light Co.				
Cutler	0	0		11,059
Lauderdale	0	0		14,499
Miami	0	0		13,802
Miami Beach	0	0		12,954
Palatka	0	0		12,164
Riviera	0	0		11,493
Sarasota	0	0		12,737

Continued

Table PU 2 . Concluded .

Generating plant	Net generation (million kWh)	Fuel consumed in 1955			
		1000 tons	Coal Cost per ton (\$)	Oil 1000 bbl Cost per bbl (\$)	
Gulf Power Co.					
Pensacola (Crist)	456 .60	0	0	0	0
River Junction (Scholz)	398 .10	174 .90	6.75	0	0
Utility Board of the City of					
Key West	58 .30	0	0	138 .20	2.58
Tampa Electric Co.					
Hookers Point	1,053 .10	0	0	1,940 .90	2.15
Peter O . Knight	225 .50	0	0	552 .60	2.15

Table PU 3. Net generation, amount, and price of fuel consumed, and British thermal unit (Btu) per kilowatt-hour (kWh) for steam-electric plants in 1960 (U.S. Federal Power Commission ca. 1961c).

Generating plant	Net generation (million kWh)	Fuel consumed in 1960			
		Coal 1000 tons	Cost per ton (\$)	Oil 1000 bbl	Cost per bbl (\$)
Florida Power Corp.					
Avon Park	227.00	0	0	39.90	2.57
Bayboro	256.10	0	0	549.70	2.32
G.E. Turner	798.50	0	0	41.20	2.44
Higgins	621.90	0	0	1,043.40	2.28
Inglis	140.60	0	0	57.10	2.48
P.L. Bartow	755.00	0	0	37.40	2.29
Suwanee River	366.80	0	0	18.00	2.91
Florida Power and Light Co.					
Cutler	1,846.20	0	0	495.40	2.34
Fort Myers	1,779.10	0	0	123.10	2.23
Lauderdale	1,958.70	0	0	840.10	2.33
Miami	219.10	0	0	370.80	2.36
Miami Beach	52.80	0	0	117.30	2.37
Palatka	516.20	0	0	461.50	2.13
Rivera	631.00	0	0	1,059.20	2.04
Port Everglades	695.90	0	0	1,079.60	2.05
Sanford	914.10	0	0	41.60	2.18
Sarasota	51.40	0	0	89.10	2.24

Continued

Table PU 3. Continued.

Generating plant	Fuel consumed in 1955			Average Btu per kWh (\$)
	Gas	Million ft ³	Cost per 1000 ft ³	
Florida Power Corp.				
Avon Park	0	549.70	0	12,879
Bayboro	0	0	2.32	13,617
G.E. Turner	0	0	0	11,118
Higgins	0	0	0	11,847
Inglis	1,475.80		35.20	13,825
P.L. Bartow	7,106.40		34.64	10,364
Suwanee River	3,768.80		37.96	11,112
Florida Power and Light Co.				
Cutler	17,780.30		34.80	11,316
Fort Myers	0	0	0	9,971
Lauderdale	16,239.10		34.90	10,983
Miami	656.10		34.80	13,636
Miami Beach	0	0	0	13,959
Palatka	2,291.00		34.80	11,252
Riviera	799.80		34.90	11,848
Port Everglades	0	0	0	9,755
Sanford	9,271.60		34.80	10,430
Sarasota	175.50		34.80	14,369

Continued

Table PU 3 . Concluded.

Generating plant	Net generation (million kWh)	Fuel consumed in 1955			
		1000 tons	Coal Cost per ton (\$)	Oil 1000 bbl Cost per bbl (\$)	
<u>Fuel consumed in 1955</u>					
Gulf Power Co.					
Pensacola (Crist)	710.90	212.80	6.07	0	0
River Junction (Scholz)	364.90	166.00	7.50	0	0
Utility Board of the City of					
Key West	99.70	0	0	209.30	2.51
Tampa Electric Co.					
Hookers Point	686.90	0	0	1,349.00	2.21
Peter O. Knight	181.50	0	0	.552.60	2.15
F.J. Gannon	1,629.10	725.70	7.78	0	0
<u>Fuel consumed in 1955</u>					
Generating plant					
	Gas		Average		
Million ft ³	Cost per 1000 ft ³ (\$)	Btu per kWh			
Gulf Power Co.					
Pensacola (Crist)	2,322.40	29.67		23,886	
River Junction (Scholz)	0	0		11,649	
Utility Board of the City of					
Key West	0	0		0	
Tampa Electric Co.					
Hookers Point	0	0		10,760	
Peter O. Knight	0	0		15,957	
F.J. Gannon	0	0		10,760	

Table PU 4. Net generation, amount, and price of fuel consumed, and British thermal unit (Btu) per kilowatt-hour (kWh) for steam-electric plants in 1965 (U.S. Federal Power Commission 1966a).

Generating plant	Net generation (million kWh)	Fuel consumed in 1965			
		1000 tons	Coal Cost per ton (\$)	1000 bbl	Oil Cost per bbl (\$)
Florida Power Corp.					
Avon Park	186.20	0	0	3,489.20	0
P.L. Bartow	2,413.00	0	0	412.50	2.31
Bayboro	186.30	0	0	249.60	2.37
Higgins	536.70	0	0	38.90	2.43
Suwanee	540.00	0	0	11.60	2.69
G.E. Turner	999.80	0	0		2.63
Florida Power and Light Co.					
Cape Kennedy	1,572.10	0	0	2,391.00	2.06
Fort Myers	457.50	0	0	746.70	2.25
Lauderdale	706.70	0	0	359.90	2.17
Palatka	427.50	0	0	0	0
Cutler	1,090.80	0	0	6.40	2.21
Port Everglades	5,565.80	0	0	8,491.90	2.06
Riviera	2,835.70	0	0	3,116.20	2.03
Sanford	576.00	0	0	198.30	2.14

Continued

Table PU 4 . Continued.

Generating plant	Fuel consumed in 1965			Average Btu per kWh
	Gas Million ft ³	Cost per 1000 ft ³ (\$)	Average Btu per kWh	
Florida Power Corp.				
Avon Park	2,143.90	31.99		11,922
P.L. Bartow	1,740.50	32.40		9,857
Bayboro	0	0		14,068
Higgins	4,759.50	32.18		12,051
Suwanee	5,578.40	36.51		11,327
G.F. Turner	10,789.60	32.28		11,190
Florida Power and Light Co.				
Cape Kennedy	0	0		9,537
Fort Myers	0	0		10,330
Lauderdale	5,360.70	34.50		10,830
Palatka	2,072.00	34.40		11,003
Port Everglades	0	0		9,606
Riviera	8,226.80	34.50		9,791
Sanford	4,969.10	34.50		10,776

Continued

Table PU 4. Concluded.

Generating plant	Net generation (million kWh)	Fuel consumed in 1965		
		1000 tons	Coal Cost per ton (\$)	Oil 1000 bbl Cost per bbl (\$)
Fuel consumed in 1965				
Gulf Power Co.				
Pensacola (Crist)	1,303.00	455.70	6.28	0
River Junction (Scholz)	267.90	128.20	7.44	0
Utility Board of the City of				
Key West	177.20	0	0	390.30
Lansing Smith	507.60	212.30	5.74	0
Tampa Electric Co.				
Hookers Point	627.60	0	0	1,272.20
F.J. Gannon	3,441.00	1,526.40	6.60	2.07 0
Fuel consumed in 1965				
Generating plant				Average
Gas				
Million ft ³	Cost per 1000 ft ³ (\$)	Btu per kWh		
Fuel consumed in 1965				
Gulf Power Co.				
Pensacola (Crist)	1,718.20	23.97		10,231
River Junction (Scholz)	0	0		12,041
Utility Board of the City of				
Key West	0	0		13,769
Tampa Electric Co.				
Hookers Point	0	0		12,775
F.J. Gannon	0	0		10,278

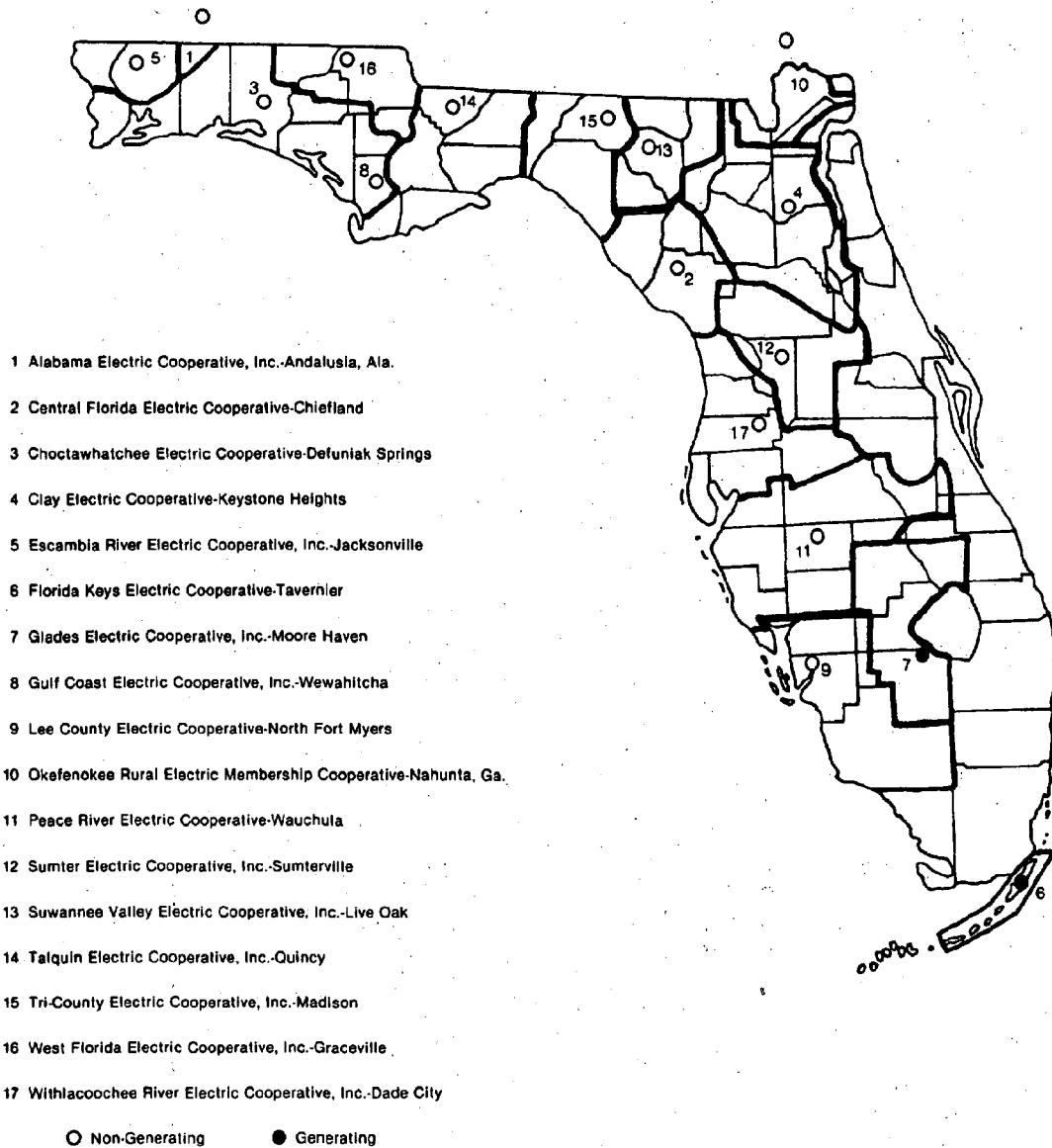


Figure 3. Rural electric cooperatives (Florida Public Service Commission 1979).

Table PU 5 . Net generation, amount, and price of fuel consumed, and British thermal unit (Btu) per kilowatt-hour (kWh) for steam-electric plants in 1970 (U.S. Federal Power Commission 1972c).

Generating plant	Net generation (million kWh)	Fuel consumed in 1970			
		1000 tons	Coal Cost per ton (\$)	Oil 1000 bbl Cost per bbl (\$)	
Florida Power Corp.					
Avon Park	228.40	0		102.10	2.34
P.L. Bartow	2,987.00	0		4,325.20	1.71
Crystal River	3,503.30	1,072.30	6.85	1,707.10	1.83
Higgins	700.70	0	0	855.00	1.77
Suwanee	839.40	0	0	680.60	2.33
G.E. Turner	1,059.50	0	0	54.80	2.39
Florida Power and Light Co.					
Cape Kennedy	4,224.30	0	0	3,177.30	1.87
Cutler	858.00	0	0	215.60	2.26
Fort Myers	2,341.00	0	0	3,606.50	2.13
Lauderdale	1,655.00	0	0	764.70	1.89
Palatka	341.90	0	0	438.30	1.83
Port Everglades	6,798.90	0	0	6,660.20	2.09
Riviera	3,776.50	0	0	2,464.30	1.75
Sanford	600.70	0	0	817.30	1.88
Turkey Point	4,342.00	0	0	4,615.10	1.82

Continued

Table PU 5. Continued.

Generating plant	Fuel consumed in 1970			Average Btu per kWh (\$)
	Gas		Million ft ³	
	Cost per 1000 ft ³	(\$)		
Florida Power Corp.				
Avon Park	2,134 .90	38 .67		12,404
P.L. Bartow	1,790 .80	41 .70		9,643
Crystal River				9,936
Higgins	2,944 .30	41 .16		12,006
Suwanee	4,967 .60	36 .31		11,259
G.E. Turner	11,545 .70	39 .30		11,504
Florida Power and Light Co.				
Cape Kennedy	21,748 .60	36 .60		9,873
Cutler	9,205 .10	36 .30		12,305
Fort Myers				9,745
Lauderdale	12,783 .80	36 .50		10,619
Palatka	1,317 .30	37 .30		11,850
Port Everglades	1,000 .00	36 .10		10,035
Rivera	23,114 .60	36 .60		10,308
Sanford	1,194 .10	38 .90		10,466
Turkey Point	13,232 .80	36 .30		9,691

Continued

Table PU 5. Concluded.

Generating plant	Net generation (million kWh)	Fuel consumed in 1970			
		1000 tons	Coal Cost per ton (\$)	Oil 1000 bbl Cost per bbl (\$)	
Gulf Power Co.					
Pensacola (Crist)	2,555 .60	351.00	7.56	0	0
River Junction (Scholz)	389 .40	186.00	9.17	0	0
Lansing Smith	1,961 .50	868.00	6.79	0	0
Tampa Electric Co.					
Hookers Point	960 .90	0	0		
F.J. Gannon	5,350 .00	2,466 .30	6.79	1,903 .30	1.77
				0	0
Fuel consumed in 1970					
Generating plant	Million ft ³	Gas			
		Million ft ³	Cost per 1000 ft ³ (\$)	Btu per kWh	Average
Gulf Power Co.					
Pensacola (Crist)	18,934 .00		24 .50		11,140
River Junction (Scholz)	0		0		12,005
Lansing Smith	0		0		10,011
Tampa Electric Co.					
Hookers Point	0		0		12,473
F.J. Gannon	0		0		10,356

Table PU 6. Net generation, amount, and price of fuel consumed, and British thermal unit (Btu) per kilowatt-hour (kWh) for steam-electric plants in 1975 (U.S. Department of Energy, Energy Information Administration 1977).

Generating plant	Net generation (million kWh)	Fuel consumed in 1975			
		1000 tons	Coal Cost per ton (\$)	Oil 1000 bbl Cost per bbl (\$)	
Florida Power Corp.					
Avon Park	9.90	0	0	2 .70	5 .36
P.L. Bartow	41.00	0	0	95 .80	12 .83
Bayboro	89.90	0	0	209 .80	12 .73
DeBarry	0.70	0	0	1 .20	14 .22
Higgins	18.40	0	0	1 .00	11 .61
Intercession City	243.10	0	0	553 .80	13 .58
Port St. Joe	1.10	0	0	3 .40	9 .21
Rio Pinar	0.40	0	0	1 .30	15 .11
Turner	66.80	0	0	153 .80	15 .86
Florida Power and Light Co.					
Fort Myers	718.00	0	0	1,620 .90	12 .31
Lauderdale	188.50	0	0	262 .40	11 .45
Port Everglades	239.90	0	0	409 .80	12 .02

Continued

Table PU 6. Continued.

Generating plant	Fuel consumed in 1975			Average Btu per kWh
	Million ft ³	Cost per 1000 ft ³ (\$)	Gas	
Florida Power Corp.				
Avon Park	145.90	159.59	0	16,709
P.L. Bartow	0	0	0	13,491
Bayboro	0	0	0	13,402
DeBarry	0	0	0	9,767
Higgins	284.40	160.68	0	16,291
Intercession City	0	0	0	13,105
Port St. Joe	0	0	0	17,286
Rio Pinar	0	0	0	18,372
Turner	0	0	0	13,364
Florida Power and Light Co.				
Fort Myers	0	0	0	13,112
Lauderdale	0	0	0	16,434
Port Everglades	0	0	0	15,674

Continued

Table PU 6 . Concluded.

Generating plant	Net generation (million kWh)	Fuel consumed in 1975			
		1000 tons	Coal Cost per ton (\$)	1000 bbl	Oil Cost per bbl (\$)
Gulf Power Co.					
Smith-Turbine A	13.80	0	0	384.30	12.37
Tampa Electric Co.					
Big Bend	159.10	0	0	384.30	12.37
F.J. Gannon	13.30	0	0	40.00	12.38

Generating plant	Fuel consumed in 1975			
	Million ft ³	Gas	Cost per 1000 ft ³ (\$)	Average Btu per kWh
Gulf Power Co.				
Smith-Turbine A	0		0	14,363
Tampa Electric Co.				
Big Bend	0		0	13,992
F.J. Gannon	0		0	17,387

Table PU 7. Net generation, amount, and price of fuel consumed, and British thermal unit (Btu) per kilowatt-hour (kWh) for steam-electric plants in 1978 (U.S. Department of Energy, Energy Information Administration 1980).

Generating plant	Net generation (million kWh)	Fuel consumed in 1978			
		1000 tons	Coal Cost per ton (\$)	1000 bbl	Oil Cost per bbl (\$)
Florida Power Corp.					
Anc 10te	3,202.40	0	0	4,967.00	12.00
Avon Park	212.60	0	0	48.00	12.00
P.L. Bartow	2,819.70	0	0	3,365.00	11.00
Higgins	614.30	0	0	1,000.00	11.00
Suwanee	778.50	0	0	1,066.00	12.00
G.E. Turner	850.50	0	0	499.00	12.00
Crystal River	4,058.70	1,005.00	39.00	2,856.00	11.00
Florida Power and Light Co.					
Cape Canaveral	4,311.50	0	0	3,358.00	11.00
Fort Myers	2,410.90	0	0	3,787.00	12.00
Lauderdale	1,132.90	0	0	996.00	12.00
Manatee	5,443.50	0	0	8,770.00	12.00
Port Everglades	6,061.10	0	0	6,616.00	12.00
Putnam Comb. Cyle	569.90	0	0	1,031.00	14.00
Riviera	2,705.50	0	0	1,579.00	12.00
Sanford	3,604.10	0	0	5,399.00	12.00
Turkey Point	4,205.60	0	0	4,341.00	12.00

Continued

Table PU 7. Continued.

	Net generation (million kWh)	Fuel consumed in 1978		
		Coal (1000 tons)	\$ cost per ton	Oil (1000 barrels) \$ cost per bbl
Gulf Power Co.				
Pensacola (Crist)	3,716.90	1,491.00	31.00	145.00
River Junction (Scholz)	444.60	220.00	37.00	12.00
Lansing Smith	1,986.70	901.00	32.00	8.00
Tampa Electric Co.				
Big Bend	5,542.90	2,482.00	35.00	0
F.J. Gannon	4,589.70	1,091.00	36.00	3,515.00
Hookers Point	563.10	0	0	1,195.00
Fuel consumed in 1978				
		Gas	Average	
million ft ³		\$ cost per 1000 ft ³	Btu per kWh	
Gulf Power Co.				
Pensacola (Crist)	9,141.00	15.00	11,921	
River Junction (Scholz)	0	0	12,116	
Lansing Smith	0	0	10,518	
Tampa Electric Co.	0	0		
Big Bend	0	0	10,202	
F.J. Gannon	0	0	10,259	
Hookers Point	0	0	13,425	

Continued

Table PU 7. Concluded.

	Net generation (million kWh)	Grams used	Cost per gram	Average Btu per kWh
Florida Power Corp.				
Crystal River (nuclear)	2,592.10	215,291	27.00	10,510
Florida Power and Light Co.				
Turkey Point (nuclear)	8,273 .20	1,515,000	10.00	11,545
St. Lucie (nuclear)	5,000 .20	1,030,000	12.00	11,171

Table PU 8. Sales by generating utilities to final consumers from 1955 to 1977 (U.S. Federal Power Commission ca. 1956a, ca. 1956b, ca. 1961a, ca. 1961b, ca. 1966b, 1971a, 1971b, 1972a, 1972b, 1973a, 1973b, 1974b, ca. 1974c, ca. 1975a, ca. 1975b, ca. 1976a, ca. 1976b; U.S. Department of Energy, Energy Information Administration 1978b, 1979b, 1979c).

Generating agency	Sales (1,000 kwh) by class of customer			Total
	Residential	Commercial and industrial	Other	
1955				
Florida Power Corp.	489,691		810,682	1,376,149
Florida Power and Light Co.	1,416,204		1,487,113	
Gulf Power Co.	218,440		406,637	3,076,930
Tampa Electric Co.	346,423		781,712	628,337
City of Key West	23,164		31,628	1,188,731
1960				2,706
Florida Power Corp.	1,115,400		1,389,603	2,632,227
Florida Power and Light Co.	3,086,018		3,384,276	
Gulf Power Co.	407,562		733,146	6,834,186
Tampa Electric Co.	692,779		1,486,763	5,504
City of Key West	38,524		49,652	1,146,213
				120,815
				2,300,358
				5,519
				93,697

Continued

Table PU 8. Continued.

Generating agency	Sales (1,000 kWh) by class of customer			Total
	Residential	Commercial	Industrial	
1965				
Florida Power Corp.	1,803,163	1,019,706	1,190,612	4,219,916
Florida Power and Light Co.	5,539,803	3,793,056	1,719,306	11,835,756
Gulf Power Co.	677,088	406,765	743,756	1,836,964
Tampa Electric Co.	1,079,211	247,046	2,381,060	3,903,472
City of Key West	56,941	103,617	422	169,591
1970				
Florida Power Corp.	3,696,115	1,844,192	1,912,379	7,777,130
Florida Power and Light Co.	11,814,172	6,475,639	2,044,013	22,329,082
Gulf Power Co.	1,306,042	679,105	1,067,629	3,065,618
Tampa Electric Co.	2,019,513	1,040,568	2,772,105	6,174,103
City of Key West	90,278	180,715	0	283,687
1971				
Florida Power Corp.	4,133,335	2,134,106	2,029,686	8,650,764
Florida Power and Light Co.	13,080,408	7,394,967	2,236,290	24,841,322
Gulf Power Co.	1,425,040	751,482	1,163,748	3,353,634
Tampa Electric Co.	2,200,274	1,165,324	2,717,704	6,480,914
City of Key West	96,573	185,434	0	297,586

Continued

Table PU 8. Continued.

Generating agency	Sales (1,000 kWh) by class of customer				Total
	Residential	Commercial	Industrial	Other	
1972					
Florida Power Corp.	4,717,235	2,403,398	2,196,766	376,302	9,693,801
Florida Power and Light Co.	14,652,751	8,389,495	2,468,342	2,295,132	27,805,720
Gulf Power Co.	1,601,686	860,022	1,308,145	12,040	3,781,893
Tampa Electric Co.	2,415,565	1,335,174	2,784,326	433,757	6,968,822
City of Key West	105,537	192,130	0	18,130	315,796
1973					
Florida Power Corp.	5,793,242	2,836,292	2,349,572	402,733	11,381,839
Florida Power and Light Co.	16,822,972	10,180,485	2,754,968	1,358,641	31,117,070
Gulf Power Co.	1,800,121	946,221	1,381,421	9,318	4,137,082
Tampa Electric Co.	2,843,497	1,524,899	3,003,586	471,159	7,843,142
City of Key West	N.D.	N.D.	N.D.	N.D.	N.D.
1974					
Florida Power Corp.	5,285,716	2,935,162	2,421,715	375,277	11,017,870
Florida Power and Light Co.	16,802,406	11,041,205	2,645,724	746,990	31,236,325
Gulf Power Co.	1,834,947	968,814	1,325,058	12,933	4,141,751
Tampa Electric Co.	2,827,811	1,639,687	3,101,695	462,250	8,031,443
City of Key West	114,354	188,266	0	11,774	314,394

Continued

Table PU 8. Concluded.

Generating agency	Sales (1,000 kWh) by class of customer				Total
	Residential	Commercial	Industrial	Other	
1975					
Florida Power Corp.	5,411,991	3,187,479	2,479,378	375,754	11,454,601
Florida Power and Light Co.	17,312,500	11,850,752	2,534,484	809,421	32,507,157
Gulf Power Co.	1,888,855	1,040,678	1,339,523	12,950	4,282,007
Tampa Electric Co.	2,906,472	1,766,970	3,296,792	499,256	8,469,490
City of Key West	102,576	189,393	0	6,905	298,873
1976					
Florida Power Corp.	5,750,889	3,298,036	2,690,524	429,578	12,169,027
Florida Power and Light Co.	17,625,343	12,117,063	2,596,480	789,870	33,128,756
Gulf Power Co.	2,046,577	1,127,674	1,435,467	12,955	4,622,674
Tampa Electric Co.	2,910,939	1,803,882	3,563,742	521,943	8,800,505
City of Key West	110,406	184,943	0	7,264	302,614
1977					
Florida Power Corp.	6,373,899	3,526,562	2,813,000	467,607	13,181,069
Florida Power and Light Co.	19,073,674	12,885,079	2,756,289	802,570	35,519,614
Gulf Power Co.	2,156,383	1,206,666	1,494,138	13,958	4,871,145
Tampa Electric Co.	3,139,441	1,904,262	4,007,816	550,877	9,602,396
City of Key West	N.D.	N.D.	N.D.	N.D.	N.D.

Table PU 9. Sales by non-generating rural electric cooperatives to final consumers in 1975 and 1978
 (Florida Public Service Commission, Research and Management Studies Department 1979, 1980).

Rural electric cooperatives	Sales (\$1,000 kWh) by class of customer				Total
	Residential	Commercial	Industrial	Other	
1975					
Central Florida	64,196	8,034	2,453	1,971	76,654
Choctawhatchee	77,509	36,224	162	2,0044	115,899
Escambia River	48,912	5,569	4,174	4,195	62,850
Gulf Coast	45,445	6,305	3,446	990	56,186
Lee County	370,719	183,972	14,605	7,636	576,932
Peace River	67,617	10,619	5,813	12,536	96,585
Sumter	206,910	29,567	29,151	6,053	271,681
Talquin	175,214	20,840	19,784	2,135	217,973
West Florida	118,062	8,175	825	3,195	130,260
Withahoochee River	293,062	49,559	23,640	13,375	379,636
1978					
Central Florida	0	12,209	2,501	85,556	100,266
Choctawhatchee	95,352	42,013	0	311	137,676
Escambia River	0	5,847	4,661	64,037	74,545
Gulf Coast	57,021	6,716	5,187	1,075	69,999
Lee County	529,466	270,651	0	7,387	807,504
Peace River	0	14,609	6,819	96,566	117,894
Sumter	220,553	32,327	45,338	57,488	355,706
Talquin	0	25,528	32,000	225,145	282,673
West Florida	0	11,278	2,127	148,759	162,164
Withahoochee River	388,992	63,259	53,831	45,901	551,983

Table PU 10. Initial year of operation for steam electric plants serving northwestern and southwestern Florida in 1978 (U.S. Department of Energy, Energy Information Administration 1980).

Company	Plant	Initial year of plant operation
Florida Power and Light Co.	Cape Kennedy	1965
	Fort Meyers	1958
	Lauderdale	1926
	Manatee	1976
	Port Everglades	1960
	Putnam Combination Cycle	1977
	Riviera	1946
	St. Lucie (nuclear)	1976
	Sanford	1926
	Turkey Point	1967
	Turkey Point (nuclear)	1972
Florida Power Corp.	Anclote	1974
	Avon Park	1928
	P.L. Bartow	1958
	Crystal River	1969
	Crystal River (nuclear)	1977
	Higgins	1952
	Sewanee	1953
	G.E. Turner	1926
Gulf Power Co.	Pensacola (Crist)	1945
	River Junction (Scholz)	1953
	Lansing Smith	1965
Tampa Electric Co.	Big Bend	1976
	F.J. Gannon	1957
	Hookers Point	1965

Table PU 11. Initial year of operation for gas turbine electric plants serving the region in 1977 (U.S. Department of Energy, Energy Information Administration 1980).

Company	Plant	Initial year of plant operation
Florida Power and Light Co.	Fort Myers	1974
	Lauderdale	1970
	Port Everglades	1971
Florida Power Corp.	Avon Park	1968
	P.L. Bartow	1972
	Bayboro	1973
	DeBarry	1975
	Higgins	1969
	Intercession City	1974
	Port St. Joe	1970
	Rio Pinar	1970
	G.E. Turner	1970
	Smith-Turbine A	1971
Gulf Power Co.	Big Bend	1969
	F.J. Gannon	1969

Table PU 12. Major interconnections for bulk power transactions for the Florida subregion^a (U.S. Federal Energy Regulatory Commission 1980).

Generating investor-owned systems	
System	Interconnections
Florida Power Corp.	Georgia Power Co. Tampa Electric Co. Florida Power and Light Co. Gulf Power Co. Southeast Power Administration Orlando Utility Commission Tallahassee Electric Department Gainesville, Alachua County Regional Utilities Board City of Kissimmee Lakeland Department of Electric and Water Utilities Sebring Utilities Commission
Florida Power and Light Co.	Florida Power Corp. Jacksonville Electric Authority Tampa Electric Co. Orlando Utility Commission Vero Beach Municipal Utilities New Smyrna Beach Utility Commission Fort Pierce Utility Authority Lake Worth Utility Authority Homestead Municipal Electric Department
Tampa Electric Co.	Florida Power Corp. Florida Power and Light Co. Lakeland Department of Electric and Water Utilities

Continued

Table PU 12. Continued.

<u>Generating municipal systems</u>	
System	Interconnections
Key West Utility Board	U.S. Naval Air Station
<u>Generating rural electrical cooperatives</u>	
System	Interconnections
Florida Keys Electric Cooperative Association Inc.	Seminole Electric Cooperative Southeast Power Administration Florida Power Corp.
<u>Nongenerating rural electric cooperatives</u>	
System	Power supplier
Central Florida Electrical Cooperative, Inc.	Seminole Electric Cooperative Southeast Power Administration Florida Power Corp.
Lee County Electrical Cooperative, Inc.	Seminole Electric Cooperative Florida Power Corp. Florida Power and Light Co.
Peace River Electrical Cooperative, Inc.	Florida Power Corp. Florida Power and Light Co. Tampa Electric Co.
Sumter Valley Electrical Cooperative, Inc.	Seminole Electric Cooperative Florida Power Corp.

Continued

Table PU 12. Concluded.

Nongenerating rural electric cooperatives	
System	Power supplier
Talquin Electrical Cooperative, Inc.	Southeast Power Administration Seminole Electric Cooperative Florida Power Corporation
Withlacoochee River Electrical Cooperative, Inc.	Florida Power Corporation Seminole Electric Cooperative
Other generating systems	
System	Interconnections
Southeast Power Administration	Florida Power Corp.

^a The Florida subregion consists of all Florida counties except Escambia, Santa Rosa, Okaloosa, Holmes, Washington, Jackson, Bay, Calhoun and Gulf.

Table PU 13. Major interconnections for bulk power transactions for the southern subregion^a (U.S. Federal Energy Regulatory Commission 1980).

Generating investor-owned systems	
System	Interconnections
Gulf Power Co.	Alabama Power Co. Florida Power Corp. Georgia Power Co.
Generating rural electrical cooperatives	
System	Interconnections
Alabama Electric Cooperative, Inc.	Alabama Power Co. Southeast Power Administration
Nongenerating rural electrical cooperatives	
System	Power supplier
Choctawatchee Electrical Cooperative, Inc.	Alabama Electric Cooperative, Inc.
Escambia River Electrical Cooperative, Inc.	Gulf Power Co. Southeast Power Administration
Gulf Coast Electrical Cooperative, Inc.	Alabama Electric Cooperative, Inc.
West Florida Electrical Cooperative, Association	Gulf Power Co. Southeast Power Administration

^a The Southern Subregion consists of Georgia, Alabama, part of Mississippi and Escambia, Santa Rosa, Okaloosa, Holmes, Washington, Jackson, Bay, Calhoun and Gulf Counties in Florida.

TRANSPORTATION (TRANS)

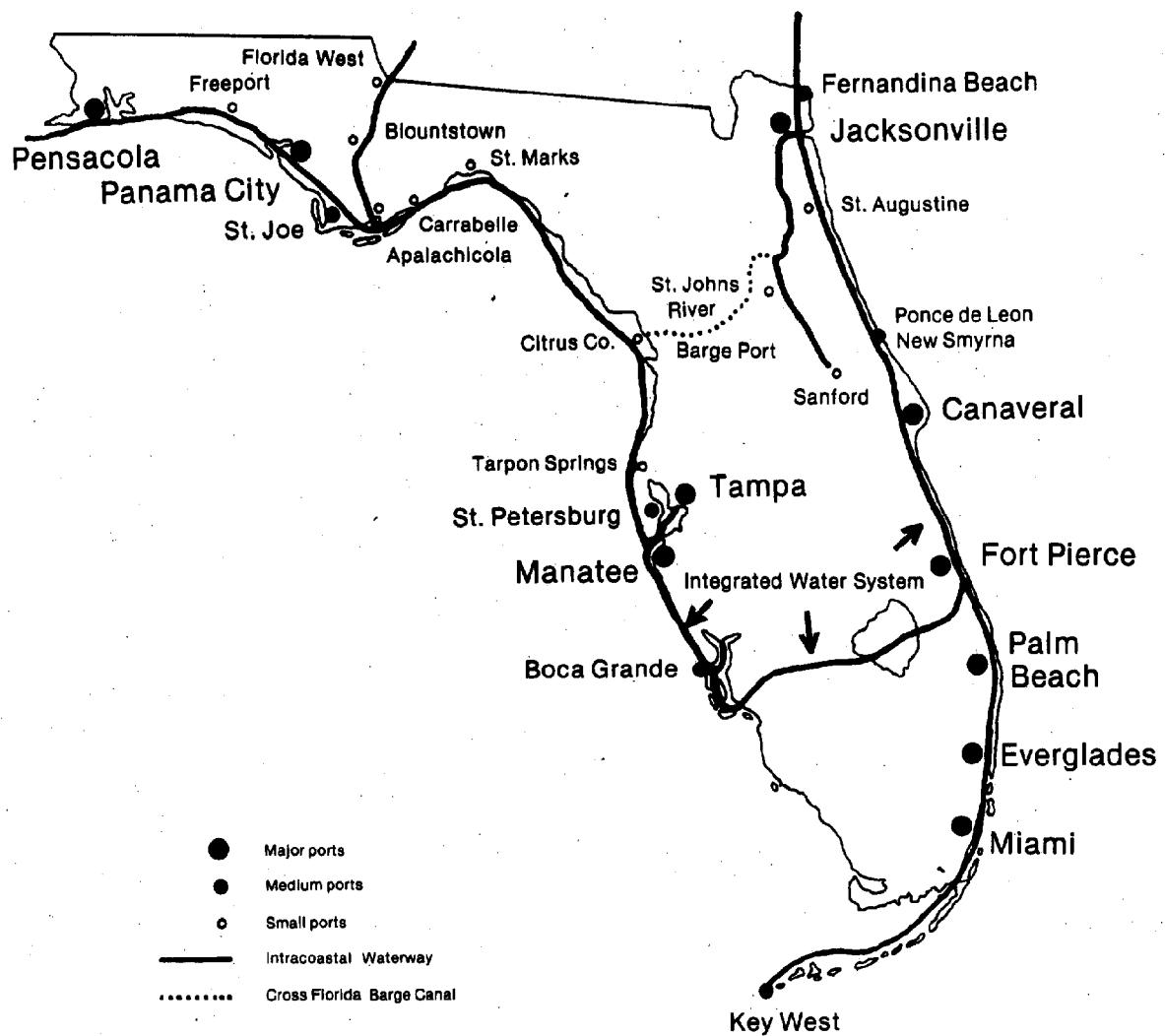


Figure 4. Ports and waterways in Florida (Florida Department of Transportation 1978b).

Table TRANS 1. Identification and classification of ports, including beginning dates of operation under jurisdiction of local port authorities (Florida Department of Transportation 1978b).

Port and classification	Size (acres)	Date operations began
Major ports		
Port of Panama City	48	1967
Port of Pensacola	82	1943
Medium ports		
Port of St. Joe	N.D.	N.D.
Small ports		
Port of Apalachicola	N.D.	N.D.

^a Under the port authority.

Table TRANS 2. Port tonnage^a (short tons^b) for 1960, 1965, 1970, 1975, 1978 (U.S. Army Corps of Engineers 1962, 1967, 1972, 1977, 1980).

Port	Year			
	1960	1965	1970	1975
Panama City	1,067,804	1,441,812	1,570,326	1,615,000
Pensacola	791,801	634,445	986,169	2,260,000
Port St. Joe	1,620,083	254,805	931,762	463,000
Port of Apalachicola	N.D.	N.D.	N.D.	657,295
				7,030

^a Figures do not reflect local (within the port) movement.
^b Short ton equals 2,000 lb.

Table TRANS 3. Florida port accessibility by mode of transportation in 1978 (Florida Department of Transportation 1978b).

Port	Mode of Transportation			
	Highway	Rail	Air	Waterway
Port of Panama City	X	X	X	X
Port of Pensacola	X	X	X	X
Port of St. Joe	X	X	X	X
Port of Apalachicola	X			

Table TRANS 4. Sources of funding for major ports as of 1978 (Florida Department of Transportation 1978b).

Table TRANS 5. Port of Panama City freight traffic (short tons) in 1960 (U.S. Army Corps of Engineers 1962).

Commodity classification	Total	Foreign			Domestic		
		Imports	Exports	Coastwise Receipts	Internal Shipments	Receipts	Shipments
040 Fish and products, fresh	1,069,200	36,273	141,081	271,757	3,765	605,701	9,227
049 Shellfish and products		1,229	0	0	0	0	1,229
060 Hides and skins, raw		167	0	0	0	0	0
094 Shells, unmanufactured		15	0	15	0	0	0
110 Animal feeds, nec		15,632	0	0	0	15,632	0
125 Vegetables and prepared including canned, nec		1,646	0	1,646	0	0	0
185 Molasses, sugar products, edible		1,021	0	0	0	0	0
190 Liquors and wines		8	0	8	0	0	0
210 Naval stores, gums, and resins		32	32	0	0	0	0
240 Oils, fats, waxes, vegetable, crude		32,350	0	17,989	0	0	14,361
280 Tobacco, unmanufactured		2,657	0	2,657	0	0	0
413 Lumber and shingles		5	0	5	0	0	0
416 Plywood, veneer's, construction materials		456	411	44	0	0	0
421 Wood manufactures, nec		126	0	126	0	0	0
457 Paper and manufactures, nec	103,138	0	99,414	0	3,724	0	0

Continued

Table TRANS 5. Continued.

Commodity classification	Total	Imports	Exports	Foreign			Domestic		
				Coastwise Receipts	Shipments	Internal Receipts	Shipments	Local	
507 Gasoline	552,483	0	0	117,605	0	432,352	2,526	0	
510 Gas oil, distillate fuel oil	74,959	0	0	22,732	0	52,227	0	0	
512 Jet fuel, all types	2,608	0	0	0	0	2,608	0	0	
513 Kerosene	35,093	0	0	8,286	0	26,807	0	0	
514 Residual fuel oil	94,679	0	0	92,679	0	0	0	0	
516 Petroleum asphalt	29,095	0	0	21,725	0	4,644	2,726	0	
518 Aliphatic naphtha	18	0	18	0	0	0	0	0	
519 Lubricating oil and greases	42,827	0	0	0	0	42,818	0	0	
520 Petroleum products, nec	9,053	0	0	4,554	0	4,499	0	0	
523 Building cement	2,080	0	0	0	0	2,080	0	0	
526 Stone and manufactures, nec	2,000	0	0	0	0	2,000	0	0	
602 Iron and steel scrap	18,769	0	0	18,769	0	0	0	0	
609 Rolled, finished steel mill products	92	92	0	0	0	0	0	0	
611 Metal manufactures, parts nec, except SCl ₆	4	0	4	0	0	0	0	0	
632 Copper alloy forms and scrap	113	0	113	0	0	0	0	0	
783 Watercraft and parts	1	0	0	0	1	0	0	0	
801 Crude and refined coal tar	2,582	0	0	0	0	0	2,582	0	

Continued

Table TRANS 5. Concluded.

Commodity classification	Total	Foreign		Domestic			
		Imports	Exports	Coastwise Receipts	Internal Shipments	Receipts	Shipments
805 Other coal tar products	1,393	0	0	2,176	0	0	1,393
829 Industrial chemicals, nec	29,323	21,474	0	0	1,673	0	0
846 Chemical specialties, nec	18	0	18	0	0	0	0
851 Other nitrogenous fertilizers, nec	13,243	13,243	0	0	0	0	0
900 Commodities, nec	40	0	0	40	0	0	0
980 Low valued shipments	85	0	85	0	0	0	0

^a Not elsewhere classified.^b Special category items.

Table TRANS 6. Port of Panama City freight traffic (short tons) in 1965 (U.S. Army Corps of Engineers 1967).

Commodity classification	Total	Foreign			Domestic		
		Imports	Exports	Coastwise Receipts	Shipments	Internal Receipts	Shipments
0131 Fresh fruits and tree nuts	1,443,218	57,380	327,800	288,318	416	746,275	21,623
0911 Fresh fish, except shellfish		33	0	33	0	0	0
0912 Shellfish		1,281	0	0	0	0	1,281
0931 Marine shells, unmanufactured		125	0	0	0	0	125
1121 Bituminous coal and lignite		4,449	0	0	0	4,449	0
1311 Crude petroleum		61,128	0	0	0	61,128	0
2011 Meat, fresh, chilled, frozen		13,423	0	0	0	0	10,312
2034 Vegetables and prepared nec		6	0	6	0	0	0
2081 Alcoholic beverages		340	340	0	0	0	0
2091 Vegetable oil, margarine, shortening		18	12	6	0	0	0
2099 Miscellaneous food products		1,860	0	1,860	0	0	0
2211 Basic textile products		97	5	92	0	0	0
		25	0	25	0	0	0

Continued

Table TRANS 6. Continued.

Commodity classification	Total	Foreign		Domestic	
		Imports	Exports	Coastwise Receipts	Internal Shipments
2311 Apparel	112	0	112	0	0
2511 Furniture and fixtures	4	4	0	0	0
2611 Pulp	122,028	0	122,028	0	0
2631 Paper and paperboard	154,803	0	154,387	0	0
2812 Dyes, pigments, tanning materials	3,748	0	0	416	0
2819 Basic chemicals and products, nec	31,173	31,167	6	0	3,748
2821 Plastic materials	9	0	9	0	0
2861 Gum and wood chemicals	16,951	0	16,951	0	0
2871 Nitrogenous fertilizer, manufactured	9,411	9,411	0	0	0
2911 Gasoline	517,502	0	54,977	0	455,377
2912 Jet fuel	7,744	0	0	0	7,744
2913 Kerosene	8,771	0	0	0	6,883
2914 Distillate fuel oil	48,852	0	0	12,188	0
2915 Residual fuel oil	248,485	16,321	0	217,636	0
2916 Lubricating oils and greases	148,494	0	0	0	148,494
2921 Liquefied gases	6,985	0	0	0	6,985

Continued

Table TRANS 6. Continued.

Commodity classification	Total	Foreign		Domestic	
		Imports	Exports	Coastwise Receipts	Internal Shipments
3011 Rubber and miscellaneous plastics products	8	0	8	0	0
3251 Structural clay products	1,600	0	0	1,600	0
3291 Miscellaneous nonmetallic mineral products	437	0	26	0	411
3315 Iron, steel shapes, except sheet	400	0	0	0	400
3316 Iron and steel plates, sheets	105	0	105	0	0
3317 Iron and steel pipe and tube	120	120	0	0	0
3319 Iron and steel products, nec	78	0	0	0	78
3321 Nonferrous metals, nec	8	0	8	0	0
3491 Miscellaneous fabricated metal products	8	0	8	0	0
3511 Machinery, except electrical	207	0	7	0	200
3611 Electrical machinery and equipment	21	0	21	0	0
3711 Motor vehicles, parts, equipment	5	0	5	0	0

Continued

Table TRANS 6. Concluded.

Commodity classification	Foreign			Domestic		
	Total	Imports	Exports	Coastwise Receipts	Shipments	Internal Receipts
3731 Ships and boats	237	0	0	29	0	208
3911 Miscellaneous manufactured products	31	0	1	0	0	15
4011 Iron and steel scrap	31,924	0	31,924	0	0	0
4012 Nonferrous metal scrap	172	0	172	0	0	0

a Not elsewhere classified.

Table TRANS 7. Port of Panama City freight traffic (short tons) in 1970 (U.S. Army Corps of Engineers 1972).

Commodity classification	Total	Foreign			Domestic		
		Imports	Exports	Coastwise Receipts	Shipments	Internal Receipts	Shipments
0119 Oilseeds, nec ^a	1,634,958	275,226	502,248	21,737	5,459	765,656	64,632
0161 Animals and products, nec	2,578	0	2,578	0	0	0	0
0911 Fresh fish, except shellfish	214	0	214	0	0	0	0
0912 Shellfish, except prepared	593	0	0	0	0	593	0
0931 Marine shells, unmanufactured	101	0	0	0	0	101	0
1311 Crude petroleum	19,129	0	0	0	0	19,129	0
1451 Clay	84,320	79,658	0	0	0	4,662	0
1479 Natural fertilizer materials, nec	8,355	0	8,355	0	0	0	0
1499 Nonmetallic minerals, nec	3,000	3,000	0	0	0	0	0
2041 Wheat flour and semolina	10,065	0	0	0	0	10,065	0
2091 Vegetable oils, margarine, shortening	5	0	5	0	0	0	0
2099 Miscellaneous food products	6,662	0	6,662	0	0	0	0
	575	0	161	0	0	0	414

Continued

Table TRANS 7. Continued.

Commodity classification	Total	Foreign		Domestic	
		Imports	Exports	Coastwise Receipts	Shipments
2611 Pulp	149,583	0	149,583	0	0
2621 Standard newsprint paper	22,766	0	0	0	0
2631 Paper and paperboard	244,258	0	206,258	0	5,459
2811 Crude tar, oil, gas products	5,128	0	0	0	5,128
2813 Alcohols	757	0	0	0	757
2817 Benzene and toluene	4,206	0	0	0	2,861
2819 Basic chemicals and products, nec	36,043	25,616	237	0	10,190
2821 Plastic materials	627	0	0	0	627
2861 Gum and wood chemicals	22,751	0	20,397	0	0
2911 Gasoline	587,225	0	0	0	583,336
2912 Jet fuel	2,056	0	0	0	2,056
2913 Kerosene	8,505	0	0	0	8,505
2914 Distillate fuel oil	27,951	0	0	0	27,512
2915 Residual fuel oil	189,854	166,952	0	21,737	0
2916 Lubricating oils and greases	52,929	0	0	0	52,929

Continued

Table TRANS 7. Concluded.

Commodity classification	Total	Foreign		Domestic		
		Imports	Exports	Coastwise Receipts	Shipments	Receipts
2917 Naphtha, petroleum solvents	6,128	0	0	0	0	6,128
2920 Coke, petroleum coke	12,000	0	0	0	0	12,000
2921 Liquefied gases	15,106	0	0	0	0	15,106
3316 Iron and steel plates, sheets	831	0	0	0	0	831
3319 Iron and steel products, nec	2,099	0	0	0	0	1,684
3411 Fabricated metal products	677	0	0	0	0	415
3511 Machinery, except electrical	20	0	20	0	0	0
3711 Motor vehicles, parts, equipment	67	0	2	0	0	65
3911 Miscellaneous manufactured products	2	0	2	0	0	0
4011 Iron and steel scrap	107,414	0	107,414	0	0	0
4012 Nonferrous metal scrap	88	0	88	0	0	0
4024 Paper waste and scrap	272	0	272	0	0	0
4029 Waste and scrap, nec	18	0	0	0	0	18

^a Not elsewhere classified.

Table TRANS 8. Port of Panama City freight traffic (short tons) in 1975 (U.S. Army Corps of Engineers 1977).

Commodity classification	Total	Foreign		Domestic		
		Imports	Exports	Coastwise Shipments	Internal Receipts	Shipments
Total	1,616,293	93,777	208,709	5,874	1,050,617	256,683
0119 Oilseeds, nec ^a	5,873	0	331	0	0	5,542
0911 Fresh fish, except shellfish	424	0	0	0	424	0
0912 Shellfish, except prepared	193	0	0	0	193	0
0931 Marine shells, unmanufactured	13,453	0	0	0	13,453	0
1311 Crude petroleum	4,443	0	0	0	4,443	0
1451 Clay	8,470	0	4,505	0	0	3,965
2091 Vegetable oils, margarine, shortening	2,659	0	2,659	0	0	0
2421 Lumber	6,571	0	0	0	0	0
2611 Pulp	154,313	0	45,370	0	0	108,943
2621 Standard newsprint paper	210	0	210	0	0	0
2631 Paper and paperboard	129,161	0	73,272	1,902	0	53,987
2811 Crude tar, oil, gas products	15,171	0	0	0	6,581	8,590
2817 Benzene and toluene	12,204	0	0	0	1,873	10,331
2819 Basic chemicals and products, nec	6,094	6,094	0	0	0	0
2821 Plastic materials	649	0	216	0	0	433
2861 Gum and wood chemicals	1,206	0	1,206	0	0	0

Continued

Table TRANS 8. Continued.

Commodity classification	Total	Foreign		Domestic		
		Imports	Exports	Coastwise Shipments	Internal Receipts	Shipments
2873 Phosphatic chemical fertilizers	4,396	0	4,496	0	0	0
2891 Miscellaneous chemical products	1,034	0	57	0	977	0
2911 Gasoline	781,224	0	0	3,472	734,299	43,453
2914 Distillate fuel oil	131,685	0	0	0	131,052	0
2915 Residual fuel oil	163,158	81,112	0	0	82,046	0
2916 Lubricating oils and greases	55,442	0	0	0	54,935	507
2917 Naphtha, petroleum solvents	19,542	0	0	0	8,494	11,048
2921 Liquefied gases	12,015	0	0	0	12,015	0
3315 Iron, steel shapes, except sheet	348	0	0	0	0	348
3411 Fabricated metal products	154	0	0	0	0	154

Continued

Table TRANS 8. Concluded.

Commodity classification	Total	Foreign			Domestic		
		Imports	Exports	Coastwise Shipments	Internal Receipts	Internal Shipments	Local
3511 Machinery, except electrical	1,062	0	204	500	0	358	0
3711 Motor vehicles, parts, equipment	364	0	364	0	0	0	0
3731 Ships and boats	390	0	0	0	390	0	0
3791 Miscellaneous transportation equipment	40	0	40	0	0	0	0
3911 Miscellaneous manufactured product	1,394	0	0	419	975	0	0
4011 Iron and steel scrap	81,911	0	74,839	0	0	7,072	0
4012 Nonferrous metal scrap	207	0	207	0	0	0	0
4024 Paper waste and scrap	833	0	833	0	0	0	0

a Not elsewhere classified.

Table TRANS 9. Port of Panama City freight traffic (short tons) in 1978 (U.S. Army Corps of Engineers 1980).

Commodity classification	Total	Foreign		Domestic		
		Imports	Exports	Coastwise Receipts	Internal Shipments	Receipts
Total	1,585,372	3,640	266,702	10,531	2,075	1,030,498
0119 Oilseeds, nec ^a	117,178	0	74,988	0	0	42,190
0129 Field crops, nec	1	0	1	0	0	0
0161 Animals and products, nec	4	4	0	0	0	0
0841 Crude rubber and allied gums	2,858	2,858	0	0	0	0
0861 Forest products, nec	57	57	0	0	0	0
0911 Fresh fish, except shellfish	720	0	579	0	0	141
0912 Shellfish, except prepared	109	0	0	0	109	0
0931 Marine shells, unmanufactured	8,151	0	0	0	8,151	0
1311 Crude petroleum	125,618	0	0	0	96,788	26,536
1451 Clay	41,767	0	7,565	0	0	2,294
1471 Phosphate rock	1,200	0	1,200	0	0	0
1499 Nonmetallic minerals, nec	7,000	0	0	0	7,000	0
2022 Dried milk and cereal	459	0	459	0	0	0

Continued

Table TRANS 9. Continued.

Commodity classification	Total	Foreign			Domestic		
		Coastwise		Receipts	Shipments	Internal Receipts	Shipments
		Imports	Exports				
2042 Prepared animal feeds	1,720	0	1,720	0	0	0	0
2049 Grain mill products, nec	797	0	0	0	0	0	797
2081 Alcoholic beverages	55	48	7	0	0	0	0
2095 Ice	480	0	0	0	0	0	480
2099 Miscellaneous food products	10,611	0	14	0	0	0	10,597
2211 Basic textile products	57	9	48	0	0	0	0
2311 Apparel	5	5	0	0	0	0	0
2415 Pulpwood, log	60,209	0	0	0	0	52,482	7,727
2416 Wood chips, staves, moldings	137,425	0	0	0	0	137,425	0
2421 Lumber	558	382	0	0	0	0	176
2491 Wood manufactures, nec	181	181	0	0	0	0	0
2611 Pulp	98,204	0	58,059	0	0	0	40,145
2631 Paper and paperboard	133,977	0	83,901	0	0	0	50,076
2691 Pulp and paper products, nec	582	0	0	0	0	0	582

Continued

Table TRANS 9. Continued.

Commodity classification	Total	Foreign			Domestic		
		Imports	Exports	Coastwise Receipts	Shipments	Internal Receipts	Shipments
2811 Crude tar, oil, gas products	13,665	0	0	0	0	8,188	5,477
2817 Benzene and toluene	12,888	0	0	0	0	6,155	6,773
2819 Basic chemicals and products, nec	12,219	0	4,098	0	0	8,121	0
2821 Plastic materials	4,469	0	374	0	0	0	4,095
2822 Synthetic rubber	274	0	18	0	0	0	256
2861 Gum and wood chemicals	2,803	0	2,651	0	0	0	152
2871 Nitrogenous chemical fertilizers	2,000	0	0	0	0	2,000	0
2879 Fertilizer and materials, nec	8,053	0	8,053	0	0	0	0
2891 Miscellaneous chemical products	792	0	792	0	0	0	0
2911 Gasoline	435,505	0	39	0	0	400,577	33,594
2914 Distillate fuel oil	98,501	0	0	0	0	94,501	1,295
2915 Residual fuel oil	143,183	0	0	4,872	0	138,311	0
2916 Lubricating oils and greases	54,282	0	0	4,459	0	49,823	0

Continued

Table TRANS 9. Concluded.

Commodity classification	Total	Foreign		Domestic		
		Imports	Exports	Receipts	Shipments	Receipts
		Coastwise			Internal	
2917 Naphtha, petroleum solvents	5,549	0	0	0	5,549	0
2921 Liquefied gases	14,081	0	6	0	0	14,075
3011 Rubber and miscellaneous plastic products	10	0	10	0	0	0
3251 Structural clay products	40	40	0	0	0	0
3315 Iron, steel shapes, except sheet	100	0	0	0	100	0
3316 Iron and steel plates, sheets	1	0	1	0	0	0
3317 Iron and steel pipe and tube	64	0	65	0	0	0
3411 Fabricated metal products	1,986	0	11	0	1,975	0
3511 Machinery, except electrical	1,402	56	346	0	0	1,000
3611 Electrical machinery and equipment	625	0	4	0	0	0
3711 Motor vehicles, parts, equipment	47	0	47	0	0	482
4011 Iron and steel scrap	22,846	0	22,846	0	0	0

^a Not elsewhere classified.

Table TRANS 10. Port of St. Joe freight traffic (short tons) in 1960 (U.S. Army Corps of Engineers 1962).

Commodity classification	Total	Domestic		
		Foreign exports	Coastwise receipts	Internal receipts
210 Naval stores, gums and resins	4,143	4,143	0	0
413 Lumber and shingles	2,044	2,044	0	0
416 Plywood, veneers	22	22	0	0
445 Paper base stocks, nec ^a	3,617	3,617	0	0
457 Paper and manufactures, nec	1,912	1,912	0	0
507 Gasoline	1,142,022	0	1,142,022	0
510 Gas oil distillate fuel oil	226,249	0	224,699	1,550
513 Kerosene	95,051	0	95,051	0
514 Residual fuel oil	136,503	0	133,168	3,335
554 Sand, gravel, crushed rock	4,740	0	0	4,740
710 Engines, turbines, parts, nec	1	1	0	0
742 Industrial machinery, parts, nec	58	58	0	0
862 Dynamite	1,167	1,167	0	0
901 Commodities, nec, except Sci ^b	1	1	0	0
980 Low-valued shipments	25	25	0	0
999 Department of Defense and Sci	2,528	2,528	0	0
	1,620,083	15,518	1,594,940	9,625

^a Not elsewhere classified.
^b Special category items.

Table TRANS 11. Port of St. Joe freight traffic (short tons) in 1965 (U.S. Army Corps of Engineers 1967).

Commodity classification	Total	Imports	Exports	Domestic	
				Foreign	Coastwise Shipments
0133 Coffee, green	254,805	57,671	65,241	113,859	17,187
0931 Marine shells, unmanufactured	110	110	0	0	0
1499 Nonmetallic minerals, nec	2,250	0	0	0	2,250
1911 Ordnance and accessories	22	0	22	0	0
2022 Dried milk and cream	7	7	0	0	0
2031 Fish and products, nec	30	30	0	0	0
2081 Alcoholic beverages	1	1	0	0	0
2091 Vegetable oils, margarine, shortening	70	70	0	0	0
2099 Miscellaneous food products	1,207	0	1,207	0	0
2211 Basic textile products	42	42	0	0	0
2491 Wood manufactures, nec	129	1	0	0	0
2511 Furniture and fixtures	129	0	129	0	0
2611 Pulp	21	21	0	0	0
2631 Paper and paperboard	276	0	476	0	0
	55,306	0	54,459	0	847

Continued

Table TRANS 11. Concluded.

Commodity classification	Foreign		Domestic		Internal Receipts	Internal Shipments
	Total	Imports	Exports	Coastwise shipments		
2819 Basic chemicals and product, nec	14,937	0	0	0	14,937	0
2861 Gum and wood chemicals	8,400	0	8,400	0	0	0
2891 Miscellaneous chemical products	1	1	0	0	0	0
2914 Distillate fuel oil	41,758	0	0	41,758	0	0
2915 Residual fuel oil	129,203	57,102	0	72,101	0	0
3211 Glass and glass products	56	56	0	0	0	0
3291 Miscellaneous nonmetallic mineral products	3	3	0	0	0	0
3315 Iron, steel shapes, except sheet	52	52	0	0	0	0
3317 Iron and steel pipe and tube	11	11	0	0	0	0
3319 Iron and steel products, nec	121	121	0	0	0	0
3324 Aluminum and alloys, unworked	1	1	0	0	0	0
3421 Cutlery, tools and hardware	3	3	0	0	0	0
3491 Miscellaneous fabricated metal products	20	20	0	0	0	0
3611 Electrical machinery and equipment	15	15	0	0	0	0
3711 Motor vehicles, parts, equipment	1	1	0	0	0	0
3911 Miscellaneous manufactured products	3	3	0	0	0	0
4024 Paper waste and scrap	548	0	548	0	0	0

^a Not elsewhere classified.

Table TRANS 12. Port of St. Joe freight traffic (short tons) in 1970 (U.S. Army Corps of Engineers 1972).

Commodity classification	Foreign			Domestic		
	Total	Imports	Exports	Coastwise receipts	Internal Receipts	Shipments
0141 Fresh and frozen vegetables	931,762	218,284	122,658	233,570	80,941	276,309
0861 Forest products, nec ^a	2,653	25	0	0	0	0
1311 Crude petroleum	34,225	5	0	0	0	2,648
1451 Clay	4,096	21,725	0	0	12,500	0
1479 Natural fertilizer mats, nec	0	4,096	0	0	0	0
1499 Nonmetallic minerals, nec	22	22	0	0	0	0
2011 Meat, fresh, chilled, frozen	40	40	0	0	0	0
2022 Dried milk and cream	16	16	0	0	0	0
2042 Prepared animal feeds	3	3	0	0	0	0
2091 Vegetable oils, margarine, shortening	634	0	634	0	0	0
2099 Miscellaneous food products	883	0	883	0	0	0
2414 Timber, posts, poles, piling	87	2	85	0	0	0
2416 Wood chips, staves, moldings	1,453	0	0	0	0	1,453
	819	0	0	0	0	819

Continued

Table TRANS 12. Concluded.

Commodity classification	Foreign			Domestic		
	Total	Imports	Exports	Coastwise receipts	Internal Receipts	Shipments
2611 Pulp	73,868	0	73,868	0	0	0
2631 Paper and paperboard	35,459	7	35,452	0	0	0
2691 Pulp and paper products, nec	3	3	0	0	0	0
2810 Sodium hydroxide	23,272	0	0	1,207	22,065	0
2819 Basic chemicals and products, nec	16,479	0	112	0	16,367	0
2861 Gum and wood chemicals	7,461	0	7,461	0	0	0
2914 Distillate fuel oil	20,747	0	0	20,747	0	0
2915 Residual fuel oil	705,132	196,422	0	211,616	25,705	271,389
2991 Petroleum and coal products, nec	4,304	0	0	0	4,304	0
3111 Leather and leather products	2	2	0	0	0	0
3281 Cut stone and stone products	10	10	0	0	0	0
3411 Fabricated metal products	2	2	0	0	0	0
4024 Paper waste and scrap	67	0	67	0	0	0

^a Not elsewhere classified.

Table TRANS 13 - Port of St. Joe freight traffic (short tons) in 1975 (U.S. Army Corps of Engineers 1977).

Commodity classification	Total	Foreign		Domestic	
		Imports	Exports	Coastwise receipts	Internal Receipts
Total	463,062	36	19,566	278,229	22,160
Coffee	1	0	1	0	0
0931 Marine shells, unmanufactured	1,276	0	0	0	1,276
1451 Clay	394	0	394	0	0
1499 Nonmetallic minerals, nec ^a	1,500	0	0	0	1,500
2011 Meat, fresh, chilled, frozen	18	0	0	0	0
2034 Vegetables and prepared, nec	13	0	13	0	0
2042 Prepared animal feeds	1	0	1	0	0
2081 Alcoholic beverages	3	3	0	0	0
2491 Wood manufactures, nec	2	2	0	0	0
2611 Pulp	1,166	0	1,166	0	0
2631 Paper and paperboard	15,249	0	15,249	0	0
2810 Sodium hydroxide	3,335	0	0	0	3,335
2819 Basic chemicals and products, nec	6	0	6	0	0
2821 Plastic materials	6	0	6	0	0
2861 Gum and wood chemicals	2,661	0	2,661	0	0
2911 Gasoline	5,830	0	0	5,830	0
2915 Residual fuel oil	431,519	0	0	272,399	16,049
3321 Nonferrous metals, nec	5	0	5	0	0
3411 Fabricated metal products	18	0	18	0	0
3511 Machinery, except electrical equipment	25	8	17	0	0
3611 Electrical machinery and equipment	1	0	1	0	0
4012 Nonferrous metal scrap	28	0	28	0	0
4112 Commodities, nec	5	0	0	0	0

^a Not elsewhere classified.

Table TRANS 14. Port of St. Joe freight traffic (short tons) in 1978 (U.S. Army Corps of Engineers 1980).

Commodity classification	Foreign			Domestic		
	Total	Imports	Exports	Coastwise shipments	Internal Receipts	Shipments
Total	657,295	250,278	18,304	57,616	101,266	229,831
0119 Oilseeds, nec ^a	66	0	66	0	0	0
0131 Fresh fruits and tree nuts	55	0	55	0	0	0
0141 Fresh and frozen vegetables	10	10	0	0	0	0
1311 Crude petroleum	471,633	235,081	0	54,670	0	181,882
1451 Clay	51	0	51	0	0	0
2011 Meat, fresh, chilled, frozen	42	0	42	0	0	0
2012 Meat and products, nec	20	0	20	0	0	0
2034 Vegetables and prepared, nec	33	10	23	0	0	0
2039 Prepared fruit and vegetable juice, nec	78	0	78	0	0	0
2049 Grain mill products, nec	615	0	615	0	0	0
2099 Miscellaneous food products	6	0	6	0	0	0
2211 Basic textile products	23	0	23	0	0	0

Continued

Table TRANS 14. Continued.

Commodity classification	Total	Foreign		Domestic	
		Imports	Exports	Coastwise shipments	Receipts Internal Shipments
2611 Pulp	3,123	0	738	0	0
2631 Paper and paperboard	3,653	0	2,639	0	1,014
2810 Sodium hydroxide	14,612	0	0	11,577	3,035
2819 Basic chemicals and products, nec	14,827	0	9,288	0	5,539
2821 Plastic materials	68	0	68	0	0
2831 Drugs	3	0	3	0	0
2841 Soap	1	0	1	0	0
2861 Gum and wood chemicals	7,455	0	4,452	0	0
2871 Nitrogenous chemical fertilizers	6,613	0	0	6,613	0
2876 Insecticides, disinfectants	67	0	67	0	0
2891 Miscellaneous chemical products	4	0	4	0	0
2911 Gasoline	10,103	0	0	5,188	4,915
2914 Distillate fuel oil	35,447	0	0	14,502	20,945
2915 Residual fuel oil	79,573	15,177	0	2,946	48,798
2918 Asphalt, tar, and pitches	9,049	0	0	0	9,049

Continued

Table TRANS 14 . Concluded .

Commodity classification	Foreign			Domestic		
	Total	Imports	Exports	Coastwise shipments	Internal Receipts	Shipments
3317 Iron and steel pipe and tube	1	0	1	0	0	0
3411 Fabricated metal products	40	0	40	0	0	0
3511 Machinery, except electrical	11	0	11	0	0	0
3611 Electrical machinery and equipment	7	0	7	0	0	0
3711 Motor vehicles, parts, equipment	4	0	4	0	0	0
3811 Instrument, photo, optical goods	2	0	2	0	0	0

^a Not elsewhere classified.

Table TRANS 15. Port of Pensacola freight traffic (short tons) in 1960 (U.S. Army Corps of Engineers 1962.

Commodity classification	Foreign			Domestic		
	Total	Imports	Exports	Coastwise shipments	Internal Receipts	Intra port Shipments
Total	792,443	75,410	64,716	14,560	572,920	34,114
040 Fish and products, fresh	640	0	0	0	0	0
049 Shellfish and products	2	0	0	0	0	0
065 Leather and manufactures	1	0	1	0	0	0
094 Shells, unmanufactured	7,452	0	0	0	7,452	0
095 Animal products, inedible, nec	17	0	17	0	0	0
101 Rice	10	0	10	0	0	0
109 Flour, grain prepared, nec	3,971	0	3,971	0	0	0
110 Animal feeds, nec	9,134	0	9,134	0	0	0
125 Vegetable and prepared including canned, nec	2,287	2,287	0	0	0	0
127 Vegetables and prepared, nec	77	0	77	0	0	0
185 Molasses, sugar products, edible	121	0	121	0	0	0
190 Liquors and wines	22	22	0	0	0	0
195 Beverages and syrups, nec	34	0	34	0	0	0
201 Synthetic rubbers	6	0	6	0	0	0

Continued

Table TRANS 15. Continued.

Commodity classification	Total	Imports	Exports	Foreign		Domestic	
				Coastwise shipments	Receipts Internal Shipments	Intra port	Local
203 Reclaimed rubber and scrap	11	0	11	0	0	0	0
205 Rubber tires and inner tubes	2	0	2	0	0	0	0
207 Rubber manufactures, nec	15	0	15	0	0	0	0
210 Naval stores, gums, and resins	1,116	0	1,107	9	0	0	0
240 Oils, fats, waxes, vegetable, crude	149	0	149	0	0	0	0
280 Tobacco, unmanufactured	4	0	4	0	0	0	0
310 Cotton semi-manufactures	275	0	275	0	0	0	0
320 Cotton manufactures	47	0	47	0	0	0	0
335 Vegetable fiber manufactures, nec	27	0	27	0	0	0	0
381 Man-made fibers and manufactures	625	0	625	0	0	0	0
390 Textile products, nec	79	0	79	0	0	0	0
400 Logs	16,480	16,109	371	0	0	0	0
401 Rafted logs	30,081	0	0	0	0	0	0
405 Posts, poles, and piling	11,844	0	5,581	6,263	0	0	0
408 Wood, nonmanufactured, nec	649	0	0	649	0	0	0
413 Lumber and shingles	13,826	5,289	6,634	1,903	0	0	0
416 Plywood, veneers, materials	409	0	152	257	0	0	0

Continued

Table TRANS 15. Continued.

Commodity classification	Foreign			Domestic		
	Total	Imports	Exports	Coastwise shipments	Internal Receipts	Intra port Shipments
						Local
417 Railroad ties	2,146	0	1,863	283	0	0
421 Wood manufactures, nec	1,006	0	165	841	0	0
450 Standard newsprint paper	165	0	165	0	0	0
457 Paper and manufactures, nec	12,404	0	8,157	4,247	0	0
507 Gasoline	252,209	0	0	252,209	0	0
510 Gas oil, distillate fuel oil	45,683	0	0	0	45,683	0
511 Petroleum, crude	10,408	0	9	0	10,399	0
512 Jet fuel, all types	45,348	0	0	0	45,348	0
513 Kerosene	8,004	0	0	0	8,004	0
514 Residual fuel oil	37,662	0	0	0	37,662	0
518 Aliphatic naphtha	7,444	0	0	0	7,444	0
519 Lubricating oils and greases	17	0	17	0	0	0
520 Petroleum products, nec	14,017	0	196	0	13,821	0
523 Building cement	44,919	1,415	0	0	43,504	0
526 Stone and manufactures, nec	91,495	0	0	0	91,195	300
530 Glass and glass products	171	0	171	0	0	0
540 Clays and earths	443	0	443	0	0	0
543 Brick and tile	194	0	194	0	0	0
549 Sulphur, liquid	2,464	0	0	0	2,464	0
550 Sulphur, dry	2,464	0	0	0	2,464	0

Continued

Table TRANS 15. Continued.

Commodity classification	Total	Foreign		Domestic		
		Imports	Exports	Coastwise shipments	Internal Receipts	Intra port
551 Limestone, crushed	600	0	0	600	0	0
554 Sand, gravel, crushed rock	2,279	0	300	0	1,979	0
555 Nonmetallic minerals, manufactures, nec	169	0	169	0	0	0
602 Iron and steel scrap	16,914	0	16,914	0	0	0
605 Ferrous castings and forgings	29	0	29	0	0	0
606 Tools and basic hardware	24	0	24	0	0	0
607 Kitchen and hospital utensils	45	0	45	0	0	0
608 Iron and steel pipe	1,381	0	1,381	0	0	0
609 Rolled, finished steel mill products	1,000	0	1,000	0	0	0
611 Metal manufactures, parts, nec except SCI	70	0	70	0	0	0
700 Electrical machinery	22	1	0	21	0	0
701 Electrical machinery, except SCI	84	0	84	0	0	0
722 Construction, mining machinery, parts	116	0	16	0	100	0
740 Textile, shoe machinery, parts	2	0	2	0	0	0

Continued

Table TRANS 15. Continued.

Commodity classification	Foreign			Domestic		
	Total	Imports	Exports	Coastwise shipments	Internal Receipts	Intra port Shipments
742 Industrial machinery, parts, nec	144	0	144	0	0	0
780 Motor vehicles	4,265	4,261	0	4	0	0
781 Motor vehicles except SCI	67	0	67	0	0	0
782 Motor vehicle parts	85	85	0	0	0	0
783 Watercraft and parts	1	0	0	1	0	0
787 Motor vehicles parts except SCI	157	0	157	0	0	0
790 Aircraft and parts	10	0	0	0	10	0
796 Vehicles and parts, nec	1	0	1	0	0	0
805 Other coal tar products	8,455	5,873	0	0	2,582	0
806 Other coal tar products except SCI	5	0	5	0	0	0
810 Medicines and preparations	12	0	12	0	0	0
826 Alcohols	33,814	0	0	0	33,814	0
828 Other industrial chemicals except SCI	31	0	31	0	0	0
829 Industrial chemicals, nec	60	0	0	60	0	0
846 Chemical specialties, nec	72	0	72	0	0	0

Continued

Table TRANS 15 . Concluded.

Commodity classification	Foreign			Domestic		
	Total	Imports	Exports	Coastwise shipments	Internal Receipts	Shipments
				Intra port	Local	
848 Pigments, paints, varnishes	212	0	212	0	0	0
851 Other nitrogenous fertilizer materials	37,955	36,766	1,189	0	0	0
854 Superphosphate	2,744	0	2,744	0	0	0
855 Potash fertilizer materials	3,300	3,300	0	0	0	0
865 Soap and toilet preparations	3	0	3	0	0	0
900 Commodities, nec	23	1	0	22	0	0
901 Commodities, nec except Sci	58	0	58	0	0	0
920 U.S. articles returned	1	1	0	0	0	0
980 Low-valued shipments	134	0	134	0	0	0
999 Department of Defense and Sci	23	0	23	0	0	0

a Not elsewhere classified.

b Special category items.

Table TRANS 16. Port of Pensacola freight traffic (short tons) in 1965 (U.S. Army Corps of Engineers 1967).

Commodity classification	Total	Foreign			Domestic		
		Imports	Exports	Receipts	Coastwide Shipments	Internal Receipts	Shipments Local
Total	651,265	96,879	92,282	10,022	2,744	390,733	41,785 16,820
0102 Barley and rye	408	0	408	0	0	0	0 0 0
0131 Fresh fruits and tree nuts	32	0	32	0	0	0	0 0 0
0161 Animals and products, nec	1	1	0	0	0	0	0 0 0
0841 Crude rubber and allied gums	12	12	0	0	0	0	0 0 0
0861 Forest products, nec	11	11	0	0	0	0	0 0 0
0911 Fresh fish, except shellfish	881	0	0	0	0	0	0 0 0
0931 Marine shells, unmanufactured	43,100	0	0	0	0	43,100	0 0 0
1121 Bituminous coal and lignite	8,457	0	0	0	0	8,457	0 0 0
1311 Crude petroleum	1,554	0	0	0	0	1,554	0 0 0
1442 Sand and gravel	579	0	2	0	0	577	0 0 0
1479 Natural fertilizer materials, nec	3,337	0	0	0	0	0	0 0 0
1911 Ordnance and accessories	2	2	0	0	0	0	0 0 0

Continued

Table TRANS 16. Continued.

Commodity classification	Foreign			Domestic		
	Total	Imports	Exports	Coastwise Receipts	Shipments	Internal Receipts
						Shipments
2491 Wood manufactures, nec	267	0	146	0	121	0
2511 Furniture and fixtures	1	1	0	0	0	0
2621 Standard newsprint paper	602	601	0	0	0	0
2631 Paper and paperboard	42,394	42,394	0	0	0	0
2691 Pulp and paper products, nec	1,225	0	23	0	1,202	0
2811 Crude tar, oil, gas products	8,730	8,375	0	0	0	0
2813 Alcohols	31,188	0	1,744	0	0	355
2819 Basic chemicals and products, nec	16,504	16,487	17	0	0	1,326
2821 Plastic materials	1,172	0	1,172	0	0	0
2823 Synthetic fibers	26	0	26	0	0	0
2841 Soap	17	1	16	0	0	0
2861 Gum and wood chemicals	13,880	0	5,794	0	0	8,086
2871 Nitrogenous fertilizer, manufactured	31,457	27,959	2,073	0	0	1,425

Continued

Table TRANS 16. Continued.

Commodity classification	Total	Imports	Exports	Foreign		Domestic		
				Coastwise Receipts	Shipments	Internal Receipts	Shipments	Local
2011 Meat, fresh, chilled, frozen	53	0	53	0	0	0	0	0
2012 Meat and products, nec	41	41	0	0	0	0	0	0
2022 Dried milk and cream	2,519	0	2,519	0	0	0	0	0
2034 Vegetables and prepared, nec	12,844	12,844	0	0	0	0	0	0
2042 Prepared animal feeds	3,960	3,960	0	0	0	0	0	0
2049 Grain mill products, nec	9,355	0	9,355	0	0	0	0	0
2081 Alcoholic beverages	41	37	4	0	0	0	0	0
2082 Beverages and syrups, nec	1,316	0	1,316	0	0	0	0	0
2091 Vegetable oils, margarine, shortening	20	0	20	0	0	0	0	0
2095 Ice	245	0	0	0	0	0	0	245
2099 Miscellaneous food products	1	0	1	0	0	0	0	0
2211 Basic textile products	4,484	4	4,480	0	0	0	0	0
2411 Logs	15,778	11,597	645	0	0	0	0	3,536
2412 Rafted logs	12,158	0	0	0	0	0	0	12,158
2414 Timber, posts, poles, piling	7,973	0	7,201	0	772	0	0	0
2421 Lumber	7,983	4,315	3,041	0	627	0	0	0

Continued

Table TRANS 16. Continued.

Commodity classification	Foreign			Domestic		
	Total	Imports	Exports	Coastwise Receipts	Shipments	Internal Receipts
				Shipments	Receipts	Shipments
2879 Fertilizer and materials, nec	1,900	0	0	0	0	1,900
2891 Miscellaneous chemical products	390	0	0	0	0	390
2911 Gasoline	258,910	0	0	0	258,081	829
2912 Jet fuel	8,868	0	0	0	8,868	0
2913 Kerosene	9,586	0	0	0	9,586	0
2914 Distillate fuel oil	26,578	0	0	0	26,578	0
2915 Residual fuel oil	14,949	0	0	9,276	0	5,553
2917 Naphtha petroleum solvents	8,219	0	0	0	0	8,219
2921 Liquefied gases	6,678	0	0	0	0	886
2991 Petroleum and coal products, nec	21	0	21	0	0	5,792
3011 Rubber and miscellaneous plastics products	72	29	43	0	0	0
3111 Leather and leather products	3	3	0	0	0	0
3211 Glass and glass products	43	43	0	0	0	0
3241 Building cement	6,576	0	0	0	0	6,576

Continued

Table TRANS 16. Continued.

Commodity classification	Total	Foreign		Domestic			
		Imports	Exports	Receipts Coastwise Shipments	Receipts Internal Shipments	Receipts Local	
3251 Structural clay products	345	21	0	0	324	0	0
3291 Miscellaneous nonmetallic mineral products	7,489	1	2,391	0	0	5,097	0
3315 Iron, steel shapes, except sheet	870	859	0	0	11	0	0
3316 Iron and steel plates, sheets	6,121	6,105	16	0	0	0	0
3319 Iron and steel products, nec	34	34	0	0	0	0	0
3324 Aluminum and alloys, unworked	6	6	0	0	0	0	0
3411 Metal containers	8	7	1	0	0	0	0
3421 Cutlery, tools, and hardware	3	1	2	0	0	0	0
3431 Plumbing fixtures, heating equipment	47	0	47	0	0	0	0
3491 Miscellaneous fabricated metal products	156	10	135	0	11	0	0
3511 Machinery, except electrical	1,301	90	311	725	0	0	175

Continued

Table TRANS 16. Continued.

Commodity classification	Foreign			Domestic		
	Total	Imports	Exports	Coastwise Shipments		Local
				Receipts	Shipments	
3611 Machinery, except electrical	1,301	90	311	725	0	0
3711 Motor vehicles, parts, equipment	67	59	8	0	0	0
3721 Aircraft and parts	22	1	0	21	0	0
3791 Miscellaneous transportation equipment	19	0	19	0	0	0
3911 Miscellaneous manufactured products	481	25	10	0	0	0
4011 Iron and steel scrap	6,760	0	6,760	0	0	246
4012 Nonferrous metal scrap	32	0	32	0	0	0
4112 Commodities, nec	100	0	0	0	100	0

a Not elsewhere classified.

Table TRANS 17. Port of Pensacola freight traffic (short tons) in 1970 (U.S. Army Corps of Engineers 1972).

Commodity classification	Total	Foreign			Domestic		
		Imports	Exports	Coastwise Shipments	Internal Receipts	Shipments	Local
0105 Rice	1,002,174	92,042	97,617	4,187	5,059	755,981	31,283
0911 Fresh fish, except shellfish	18,781	0	18,781	0	0	0	0
0912 Shellfish, except prepared	8	0	0	0	0	8	0
0931 Marine shells, unmanufactured	3	0	0	0	0	3	0
1311 Crude petroleum	78,943	0	0	0	0	78,943	0
1442 Sand, gravel, crushed rock	14,166	0	0	0	0	14,166	0
1451 Clay	11,775	0	0	0	0	11,775	0
1479 Natural fertilizer materials, nec	773	0	773	0	0	0	0
2022 Dried milk and cream	25,872	25,872	0	0	0	0	0
2034 Vegetables and prepared, nec	2,329	0	2,329	0	0	0	0
2041 Wheat flour and semolina	5,449	5,449	0	0	0	0	0
2042 Prepared animal feeds	8,676	0	8,676	0	0	0	0
2049 Grain mill products, nec	7,375	7,375	0	0	0	0	0
	2,217	0	2,217	0	0	0	0

Continued

Table TRANS 17. Continued.

Commodity classification	Foreign			Domestic		
	Total	Imports	Exports	Receipts Coastwise	Shipments	Receipts Internal Shipments
2081 Alcoholic beverages	2	2	0	0	0	0
2091 Vegetable oils, margarine, shortening	608	0	608	0	0	0
2095 Ice	5	0	0	0	0	0
2099 Miscellaneous food products	1,762	0	1,762	0	0	0
2211 Basic textile products	264	159	105	0	0	0
2411 Logs	11,513	11,513	0	0	0	0
2412 Rafted logs	16,005	0	0	0	0	0
2414 Timber, posts, poles, piling	6,093	0	6,093	0	0	0
2416 Wood chips, staves, moldings	107	107	0	0	0	0
2421 Lumber	8,720	7,472	1,248	0	0	0
2431 Veneer, plywood, worked wood	2,131	2,131	0	0	0	0
2491 Wood manufactures, nec	9	9	0	0	0	0
2511 Furniture and fixtures	3	3	0	0	0	0
2611 Pulp	17,386	0	17,386	0	0	0
2631 Paper and paperboard	19,031	0	14,035	0	4,899	0
2811 Crude tar, oil, gas products	5,279	0	0	0	0	0

Continued

Table TRANS 17. Continued.

Commodity classification	Total	Foreign		Domestic			
		Imports	Exports	Coastwise Receipts	Receipts	Internal Shipments	Shipments
2813 Alcohols	9,321	0	0	0	0	0	9,321
2817 Benzene and toluene	2,661	0	0	0	0	2,661	0
2819 Basic chemicals and products, nec	17,785	15,627	322	0	0	1,836	0
2821 Plastic materials	44	0	44	0	0	0	0
2823 Synthetic fibers	1,719	0	1,719	0	0	0	0
2861 Gum and wood chemicals	27,580	0	12,117	0	0	0	15,463
2871 Nitrogenous chemical fertilizers	13,472	0	7,872	0	0	0	5,600
2891 Miscellaneous chemical products	694	0	694	0	0	0	0
2911 Gasoline	433,737	0	0	0	0	433,737	0
2912 Jet fuel	56,680	0	0	0	0	56,680	0
2913 Kerosene	1,647	0	0	0	0	1,647	0
2914 Distillate fuel oil	25,962	0	0	0	0	25,962	0
2915 Residual fuel oil	71,247	0	0	4,010	0	67,237	0
2917 Naphtha, petroleum solvents	16,875	0	0	0	0	16,875	0
2921 Liquefied gases	41,999	0	0	0	0	41,202	797
3011 Rubber and miscellaneous plastics products	36	25	11	0	0	0	0

Continued

Table TRANS 17. Continued.

Commodity classification	Foreign			Domestic		
	Total	Imports	Exports	Coastwise Receipts	Shipments	Internal Receipts
				Local	Shipments	Local
3291 Miscellaneous nonmetallic mineral products	2,079	3	76	0	0	2,000
3314 Iron and steel primary forms	198	0	198	0	0	0
3315 Iron, steel shapes, except sheet	184	174	10	0	0	0
3316 Iron and steel plates, sheets	11,596	10,620	2	0	140	834
3319 Iron and steel products, nec	415	0	0	0	0	415
3321 Nonferrous metals, nec	3	0	3	0	0	0
3324 Aluminum and alloys, unworked	89	0	89	0	0	0
3411 Fabricated metal products	300	218	82	0	0	0
3511 Machinery, except electrical	8	0	8	0	0	0
3611 Electrical machinery and equipment	1	0	1	0	0	0
3711 Motor vehicles, parts, equipment	12	0	12	0	0	0

Continued

Table TRANS 17. Continued.

Commodity classification	Foreign			Domestic		
	Total	Imports	Exports	Coastwise Receipts	Internal Shipments	Receipts Shipments
3721 Aircraft and parts	81	0	0	61	20	0
3731 Ships and boats	116	0	0	116	0	0
4012 Nonferrous metal scrap	273	0	273	0	0	0
4022 Textile waste, scrap, sweep	71	0	71	0	0	0
4112 Commodities, nec	4	4	0	0	0	0

^a Not elsewhere classified.

Table TRANS 18. Port of Pensacola freight traffic (short tons) in 1975 (U.S. Army Corps of Engineers 1977).

Commodity classification	Total	Foreign	
		Imports	Exports
	2,262,084	321,964	292,796
0103 Corn	332	0	332
0105 Rice	146,291	0	133,837
0106 Sorghum grains	3,186	0	160
0107 Wheat	1,072	0	0
0119 Oilseeds, nec ^a	649	0	0
0133 Coffee	77	0	0
0191 Miscellaneous farm products	1	0	1
0861 Forest products, nec	11	11	0
0931 Marine shells, unmanufactured	69,251	0	0
1311 Crude petroleum	540,209	273,097	0
1442 Sand, gravel, crushed rock	10,371	0	0
1451 Clay	397	0	0
1479 Natural fertilizer materials, nec	22,957	22,957	0
1493 Liquid sulphur	417,999	0	0
2022 Dried milk and cream	128	0	128
2034 Vegetables and prepared, nec	60	60	0
2041 Wheat flour and semolina	38,782	0	32,742
2042 Prepared animal feeds	17,667	16,802	865
2049 Grain mill products, nec	95,518	0	86,138
2091 Vegetable oils, margarine, shortening	307	0	307
2099 Miscellaneous food products	15,957	0	15,957
2211 Basic textile products	5	0	5
2311 Apparel	46	46	0
2414 Timber, posts, poles, pilings	1,094	0	1,094
2416 Wood chips, staves, moldings	40	40	0

Table TRANS 18. Continued.

Commodity classification	Total	Foreign	
		Imports	Exports
2421 Lumber	2,262,084	321,964	292,796
2431 Veneer, plywood, worked wood	13,117	7,186	5,931
2491 Wood manufactures, nec	776	776	0
2611 Pulp	71	57	14
2631 Paper and paperboard	228	0	228
2810 Sodium hydroxide	19,800	0	12,497
2811 Crude tar, oil, gas products	20,345	0	0
2813 Alcohols	2,667	0	0
2819 Basic chemicals and products, nec	19,031	0	0
2821 Plastic materials	13,563	0	0
2823 Synthetic fibers	463	0	1
2841 Soap	533	0	533
2861 Gum and wood chemicals	126	0	126
2871 Nitrogenous chemical fertilizers	6,523	0	652
2891 Miscellaneous chemical products	752	327	752
2911 Gasoline	48	0	26
2912 Jet fuel	424,732	22	0
2914 Distillate fuel oil	16,984	0	0
2915 Residual fuel oil	89,757	0	0
2917 Naphtha, petroleum solvents	204,054	0	0
2921 Liquified gases	7,659	0	0
3011 Rubber and miscellaneous plastics products	35,385	0	0
3251 Structural clay products	55	0	55
3315 Iron, steel shapes, except sheet	28	0	28
3317 Iron and steel pipe and tube	515	0	0
	100	0	0

Table TRANS 18. Continued.

Commodity classification	Total	Foreign	
		Imports	Exports
3319 Iron and steel products, nec	2	0	2
3321 Nonferrous metals, nec	8	0	8
3322 Copper alloys, unworked	50	50	0
3411 Fabricated metal prod.	176	2	8
3511 Machinery, except electrical	1,553	454	124
3611 Electrical machinery and equipment	4	0	4
3711 Motor vehicles, parts, equipment	41	0	41
3721 Aircraft and parts	5	0	0
3731 Ships and boats	11	0	11
3791 Miscellaneous transportation equipment	7	0	7
3811 Instruments, photo, optical goods	1	0	1
4011 Iron and steel scrap	25	0	0
4024 Paper waste and scrap	174	0	174
4112 Commodities, nec	202	0	7

Continued

Table TRANS 18. Continued.

Commodity classification	Coastwise Receipts			Receipts Shipments			Internal Shipments			Local Shipments		
	Domestic			International								
Total	5,549		36,680		876,809		726,902		1,284			
0103 Corn	0		0		0		0		0			
0105 Rice	0		0		2,220		10,234		0			
0106 Sorghum grains	0		0		0		3,026		0			
0107 Wheat	0		0		0		1,072		0			
0119 Oilseeds, nec	0		0		0		649		0			
0133 Coffee	0		0		0		0		0			
0191 Miscellaneous farm products	0		0		0		0		0			
0861 Forest products, nec	0		0		0		0		0			
0931 Marine shells, unmanufactured	0		0		0		69,251		0			
1311 Crude petroleum	0		0		0		10,371		267,112			
1442 Sand, gravel, crushed rock	0		0		0		0		0			
1451 Clay	0		0		0		0		397			
1479 Natural fertilizer materials, nec	0		0		0		0		0			
1493 Liquid sulphur	0		0		33,065		0		384,934			
2022 Dried milk and cream	0		0		0		0		0			
2034 Vegetables and prepared, nec	0		0		0		0		0			
2041 Wheat flour and semolina	0		0		0		0		6,040			
2042 Prepared animal feeds	0		0		0		0		0			
2049 Grain mill products nec	0		0		0		0		9,380			
2091 Vegetable oils, margarine, shortening	0		0		0		0		0			
2099 Miscellaneous food products	0		0		0		0		0			
2211 Basic textile products	0		0		0		0		0			
2311 Apparel	0		0		0		0		0			

Continued

Table TRANS 18. Continued.

Commodity classification	Domestic		
	Receipts Coastwise	Shipments Coastwise	Receipts Internal Shipments
2414 Timber, posts, poles, piling	0	0	0
2416 Wood chips, staves, moldings	0	0	0
2421 Lumber	0	0	0
2431 Veneer, plywood, worked wood	0	0	0
2491 Wood manufactures, nec	0	0	0
2611 Pulp	0	0	0
2631 Paper and paperboard	0	0	0
2810 Sodium hydroxide	0	0	7,303
2811 Crude tar, oil, gas products	0	0	0
2813 Alcohols	0	0	0
2819 Basic chemicals and products, nec	0	3,615	12,807
2821 Plastic materials	0	0	13,563
2823 Synthetic fibers	0	0	0
2841 Soap	0	0	0
2861 Gum and wood chemicals	5,644	5,644	0
2871 Nitrogenous chemical fertilizers	0	0	0
2891 Miscellaneous chemical products	0	0	0
2911 Gasoline	0	0	0
2912 Jet fuel	0	0	0
2914 Distillate fuel oil	0	0	424,732
2915 Residual fuel oil	0	0	16,984
2917 Naphtha, petroleum solvents	0	0	88,080
2921 Liquified gases	0	0	179,838
3011 Rubber and miscellaneous plastics products	0	0	7,659
3251 Structural clay products	0	0	24,216
3315 Iron, steel shapes, except sheet	0	0	0
3317 Iron and steel pipe and tube	0	0	7,589
			100

Continued

Table TRANS 18. Concluded.

Commodity classification	Domestic			Local
	Coastwise Receipts	Shipments	Internal Receipts	
3319 Iron and steel products, nec	0	0	0	0
3321 Nonferrous metals, nec	0	0	0	0
3322 Copper alloys, unworked	0	0	0	0
3411 Fabricated metal products	0	0	0	0
3511 Machinery, except electrical	0	0	0	166
3611 Electrical machinery and equipment	0	0	0	975
3711 Motor vehicles, parts, equipment	0	0	0	0
3721 Aircraft and aprts	0	0	0	0
3731 Ships and boats	5	0	0	0
3791 Miscellaneous transportation equipment	0	0	0	0
3811 Instruments, photo, optical goods	0	0	0	0
4011 Iron and steel scrap	0	0	0	0
4024 Paper waste and scrap	0	0	25	0
4112 Commodities, nec	0	0	0	195
				0

^a Not elsewhere classified.

Table TRANS 19. Loading and unloading equipment availability at ports^a as of December 1978 (Florida Department of Transportation 1978b).

Equipment	Port of Panama City	Port of Pensacola	Port of St. Joe
Petroleum pipeline			X
Chiksan			
Oil pits			
Payloaders			
Conveyors	X	X	
Cranes			
Bulldozers			
Front end loaders			
Forklifts			X
Trucks			
Gantry cranes	X		
Crawler cranes	X		
Hose handling booms	X		X
Towboats		X	
Stevedore furnished equipment	X	X	X
Roll on, roll off ramps		X	
Equipment owned by individual operators			

^a No data for Port of Apalachicola.

Table TRANS 20. Port of Panama City storage and capacity in 1978 (Florida Department of Transportation 1978b).

Storage	Covered: 327,895 ft ² (7.5 acres) Transit sheds: 144,895 ft ² (3.3 acres) Port owned warehouses: 66,000 ft ² (1.5 acres) Privately owned warehouses: 117,000 ft ² (2.7 acres) Open: 17 acres
Special storage	Dry bulk silo: 400 tons Coal storage area: 200,000 tons Liquid bulk: petroleum 1,235,838 bbl liquid petroleum gas 19,286 bbl chemicals 2,700 tons
Berth facilities	Public and Port Authority owned deep water wharves 1,600 ft shallow water wharves 620 ft Private deep water wharves 2,935 ft shallow water wharves 6,138 ft

Table TRANS 21. Port of Pensacola storage and capacity in 1978 (Florida Department of Transportation 1978b).

Storage	Covered: 357,100 ft ² (8.20 acres) Transit sheds: 249,000 ft ² (5.72 acres) Warehouses, bulk: 108,100 ft ² (2.48 acres) Open: Port Authority, 5 acres Open: private, 3 acres
Special storage	Liquid bulk: petroleum 547,000 bbl chemicals 44,000 bbl Liquid bulk: private: 615,547 bbl
Berth facilities	#7: primarily used for sulphur barges, 500-ft wharf, 12 ft deep #'s 6,5,3,2: general cargo, lumber and petroleum products, 2030-ft wharf, 33 ft deep, served by rail, warehouses, tank farms #1: primarily used for fertilizers, 600-ft timber wharf, 12 ft to 33 ft deep, conveyor to warehouses #4: 100-ft shallow wharf for barges, primarily used for domestic commodities #'s 11,12,13,14: docking facilities for fishing boats, barges, tugs and Naval vessels #'s 15,16: not in use #'s 17,18,19: fishing boats and small craft #'s 20,21,22: small craft, 200-ft wharf
Other	Facility has eight private terminals and small boat docks

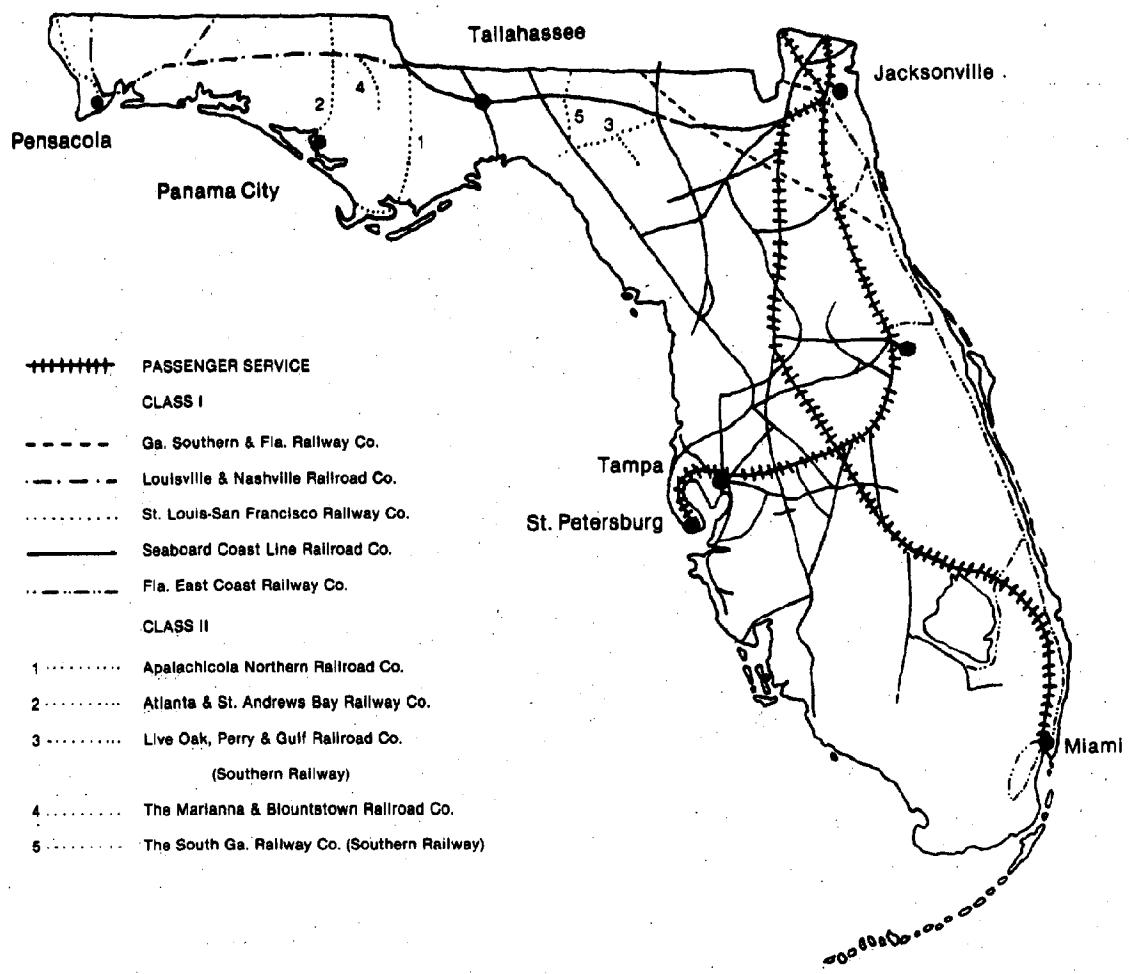


Figure 5. Passenger and freight railroads in Florida (Florida Department of Transportation 1978a).

Table TRANS 22. Port of St. Joe storage and capacity in 1978 (Florida Department of Transportation 1978b).

Port consists of a deep water wharf approximately 0.5 mi long with three terminals:

- 1) Hess Oil Co. tank farm: 900,000 bbl
- 2) Public terminal: little use, in need of repair
- 3) St. Joe Paper Co.: 49,740 ft² covered storage

Table TRANS 23. Port of Apalachicola storage and capacity in 1978 (Florida Department of Transportation 1978b).

Port consists of a city-owned marina for recreational craft, and two 80-ft timber wharves for public use.

Commercial traffic is limited to seafood processing, boat repair and some petroleum distribution.

Table TRANS 24. Road miles of track by class of railroad for 1973, 1974, 1975 and 1980 (Florida Department of Transportation 1978a).

Railroad class	1973	1974	1975	1980
Class I railroads	3,822.75	3,783.10	3,878.38	4,172.44
Class II railroads	252.99	253.07	253.07	246.97
Military	N.D.	N.D.	N.D.	N.D.
Private	N.D.	N.D.	N.D.	N.D.
Florida	N.D.	N.D.	N.D.	4,720.53

Table TRANS 25. Road miles of track by railroad line, operating revenue and operating expense for 1973, 1974 and 1975 (Florida Department of Transportation 1978a).

Railroad line	1973	1974	1975
<u>Class I</u>			
Florida East Coast	656 .52	609 .44	590 .00
Georgia Southern and Florida	36 .30	36 .30	N.D.
Louisville and Nashville	245 .63	235 .63	247 .00
St. Louis and San Francisco	47 .48	45 .15	48 .00
Seaboard Coast Line	2,836 .82	2,856 .58	2,993 .38
<u>Class II</u>			
Apalachicola Northern	95 .62	96 .00	96 .00
Atlanta and St. Andrews Bay	72 .46	72 .46	72 .46
Live Oak, Perry and South Georgia	85 .91	84 .61	84 .61

Continued

Table TRANS 25. Concluded.

Railroad	Year	Operating revenue (\$1,000)	Operating expense (\$1,000)
Terminal companies			
Jacksonville terminal	1973	2,297	2,297
	1974	2,535	2,535
	1975	2,373	63,636
Municipal docks	1973	61	67
	1974	103	48
	1975	N.D.	N.D.
St. Johns River terminal	1973	1,918	1,408
	1974	2,633	1,589
	1975	2,167	1,626
Total	1973 ^a	256,917	187,282
	1974 ^b	268,112	198,705
	1975 ^c	227,169	194,496

^a Excluded Jacksonville Terminal Co.

^b Excluded Jacksonville Terminal Co., Atlanta and St. Andrews Bay and Live Oak, Perry and South Georgia.

^c Excluded Jacksonville Terminal Co. and Municipal Docks Railway Co.

Table TRANS 26. Total road miles^a of track in 1980 for selected Florida railroads (Florida Department of Transportation 1981b).

County	Louisville and Nashville	St. Louis and San Francisco	Apalachicola Northern	Atlanta and St. Andrews Bay
Bay	0.0	0.0	0.0	54.03
Escambia	59.34	59.81	0.0	0.0
Franklin	0.0	0.0	28.62	0.0
Gulf	0.0	0.0	17.48	0.0
Okaloosa	48.46	0.0	0.0	0.0
Santa Rosa	29.77	0.0	0.0	0.0
Walton	25.44	0.0	0.0	0.0
Region	163.01	59.81	46.10	54.03

^a No single track miles for Florida East Coast, Georgia Southern and Florida, Seaboard Coastline and Live Oak, Perry and Southern Georgia.

Table TRANS 27. Total revenue freight (tons) carried by Class I railroads in Florida in 1971 (Florida Department of Transportation 1980d).

Product	Seaboard Coastline	Florida East Coast	Georgia Southern and Florida
Farm products	2,437,776	812,712	129,426
Nonmetallic minerals except fuels	34,610,968	3,248,535	2,218,761
Food and kindred products	5,254,366	748,541	459,090
Lumber and wood products, except furniture	6,172,302	257,566	544,352
Pulp and paper	2,694,463	216,243	415,357
Chemicals	8,205,273	270,409	886,617
Petroleum and coal products	854,887	153,227	57,325
Stone, clay and glass	6,937,889	377,116	443,712
Primary metal products	860,245	137,398	137,188
Transportation equipment	695,909	323,267	227,758
Other	3,420,185	877,990	556,052
Total	72,144,263	7,423,004	6,075,638

Continued

Table TRANS 27. Concluded.

Product	Louisville and Nashville	St Louis and San Francisco
Farm products	38,789	3,970
Nonmetallic minerals except fuels	675,761	73,445
Food and kindred products	260,417	39,964
Lumber and wood products, except furniture	1,541,952	299,322
Pulp and paper	405,008	179,132
Chemicals	1,333,798	69,552
Petroleum and coal products	266,681	5,344
Stone, clay and glass	577,022	76,688
Primary metal products	28,141	4,091
Transportation equipment	43,612	177
Other	351,822	32,301
Total	5,523,003	783,986

Table TRANS 28. Total revenue freight (tons) carried by Class I railroads in Florida in 1972 (Florida Department of Transportation 1980d).

Product	Seaboard Coastline	Florida East Coast	Georgia Southern and Florida
Farm products	2,474,412	864,112	119,450
Nonmetallic minerals except fuels	38,012,568	3,143,365	2,082,846
Food and kindred products	5,189,887	806,313	483,418
Lumber and wood products, except furniture	7,099,232	290,267	584,668
Pulp and paper	2,820,584	221,537	458,143
Chemicals	8,478,407	277,586	936,495
Petroleum and coal products	916,610	137,640	51,125
Stone, clay and glass	7,058,453	505,766	587,699
Primary metal products	750,820	119,187	134,748
Transportation equipment	772,814	364,463	258,360
Other	4,223,219	1,156,086	642,484
Total	77,797,006	7,886,322	6,339,436

Continued

Table TRANS 28. Concluded.

Product	Louisville and Nashville	St Louis and San Francisco
Farm products	62,331	8,759
Nonmetallic minerals except fuels	726,753	80,606
Food and kindred products	362,484	101,346
Lumber and wood products, except furniture	1,615,333	343,052
Pulp and paper	504,359	231,196
Chemicals	1,461,700	63,022
Petroleum and coal products	297,343	3,882
Stone, clay and glass	633,264	91,899
Primary metal products	66,663	1,690
Transportation equipment	69,459	137
Other	562,219	30,002
Total	6,361,908	955,591

Table TRANS 29. Total revenue freight (tons) carried by Class I railroads in Florida in 1973 (Florida Department of Transportation 1980d).

Product	Seaboard Coastline	Florida East Coast	Georgia Southern and Florida
Farm products	2,939,428	1,017,747	140,129
Nonmetallic minerals except fuels	39,087,889	3,490,283	2,385,820
Food and kindred products	5,694,495	1,030,307	491,279
Lumber and wood products, except furniture	7,507,033	363,352	604,836
Pulp and paper	2,867,112	236,302	449,937
Chemicals	9,223,175	285,892	1,137,419
Petroleum and coal products	994,781	144,645	65,012
Stone, clay and glass	7,509,719	632,246	678,010
Primary metal products	898,833	138,365	209,221
Transportation equipment	896,320	416,713	280,802
Other	5,498,852	1,504,113	835,829
Total	83,117,637	9,270,065	7,278,294

Continued

Table TRANS 29. Concluded.

Product	Louisville and Nashville	St Louis and San Francisco
Farm products	66,778	2,235
Nonmetallic minerals except fuels	962,413	70,392
Food and kindred products	501,010	75,739
Lumber and wood products, except furniture	1,600,191	333,796
Pulp and paper	557,403	194,794
Chemicals	1,692,333	66,103
Petroleum and coal products	331,147	2,588
Stone, clay and glass	760,410	115,811
Primary metal products	162,339	2,273
Transportation equipment	88,708	150
Other	525,545	24,604
Total	7,248,277	888,485

Table TRANS 30. Total revenue freight (tons) carried by Class I railroads in Florida in 1974 (Florida Department of Transportation 1980d).

Product	Seaboard Coastline	Florida East Coast	Georgia Southern and Florida
Farm products	2,463,305	862,867	177,362
Nonmetallic minerals except fuels	40,469,885	3,400,209	1,944,734
Food and kindred products	5,762,085	920,686	493,303
Lumber and wood products, except furniture	7,090,011	298,771	657,552
Pulp and paper	3,023,238	266,046	471,105
Chemicals	9,108,853	275,967	1,018,354
Petroleum and coal products	948,877	137,098	65,563
Stone, clay and glass	6,584,252	481,364	637,009
Primary metal products	889,566	166,108	244,518
Transportation equipment	684,802	292,848	201,482
Other	5,264,262	1,668,774	851,416
Total	82,289,136	8,770,738	6,762,398

Continued

Table TRANS 30. Concluded.

Product	Louisville and Nashville	St Louis and San Francisco
Farm products	94,037	5,121
Nonmetallic minerals except fuels	1,051,743	107,099
Food and kindred products	428,800	97,274
Lumber and wood products, except furniture	1,336,189	341,171
Pulp and paper	555,363	190,055
Chemicals	1,825,336	61,777
Petroleum and coal products	340,436	1,978
Stone, clay and glass	669,809	90,744
Primary metal products	93,887	5,157
Transportation equipment	43,876	259
Other	685,340	20,991
Total	7,124,816	921,626

Table TRANS 31. Total revenue freight (tons) carried by Class I railroads in Florida in 1975 (Florida Department of Transportation 1980d).

Product	Seaboard Coastline	Florida East Coast	Georgia Southern and Florida
Farm products	2,424,261	932,433	99,579
Nonmetallic minerals except fuels	37,677,254	2,976,362	1,788,623
Food and kindred products	5,739,145	942,869	438,071
Lumber and wood products, except furniture	5,694,154	214,553	501,521
Pulp and paper	2,687,044	190,973	355,964
Chemicals	9,303,433	262,422	980,650
Petroleum and coal products	712,091	106,697	42,851
Stone, clay and glass	5,023,249	347,449	431,441
Primary metal products	607,513	108,154	184,033
Transportation equipment	560,177	246,298	180,712
Other	4,507,903	1,460,942	821,034
Total	74,936,224	7,789,152	5,824,479

Continued

Table TRANS 31. Concluded.

Product	Louisville and Nashville	St Louis and San Francisco
Farm products	130,857	2,031
Nonmetallic minerals except fuels	692,175	69,370
Food and kindred products	553,305	307,892
Lumber and wood products, except furniture	953,176	292,984
Pulp and paper	482,378	133,042
Chemicals	1,798,288	33,507
Petroleum and coal products	283,217	1,248
Stone, clay and glass	468,882	47,941
Primary metal products	50,057	4,152
Transportation equipment	25,755	136
Other	618,397	16,525
Total	6,056,487	908,828

Table TRANS 32. Total revenue freight (tons) carried by Class I railroads in Florida in 1976 (Florida Department of Transportation 1980d).

Product	Seaboard Coastline	Florida East Coast	Georgia Southern and Florida
Farm products	1,918,738	592,242	148,693
Nonmetallic minerals except fuels	36,406,858	3,188,098	1,683,402
Food and kindred products	5,984,207	1,161,840	509,232
Lumber and wood products, except furniture	6,229,994	223,977	681,172
Pulp and paper	3,010,416	226,603	524,188
Chemicals	10,217,521	284,265	775,899
Petroleum and coal products	799,830	124,282	45,632
Stone, clay and glass	5,086,221	354,737	449,272
Primary metal products	604,606	65,069	173,672
Transportation equipment	688,445	317,762	224,100
Other	4,666,240	1,635,876	828,880
Total	75,619,076	8,174,751	6,004,142

Continued

Table TRANS 32. Concluded.

Product	Louisville and Nashville	St Louis and San Francisco
Farm products	234,641	2,945
Nonmetallic minerals except fuels	763,129	65,280
Food and kindred products	747,465	427,465
Lumber and wood products, except furniture	1,125,305	346,907
Pulp and paper	519,993	155,133
Chemicals	2,053,133	39,183
Petroleum and coal products	213,434	893
Stone, clay and glass	407,878	42,676
Primary metal products	57,726	2,507
Transportation equipment	29,098	165
Other	843,663	24,463
Total	6,999,465	1,108,108

Table TRANS 33. Location and identification of commercial and general aviation airports in 1979 (Florida Department of Transportation 1980a).

County	Airport
Bay	Panama City-Bay County
Escambia	Coastal Fly Service Ferguson Pensacola Regional
Franklin	Carrabelle Flight Strip Apalachicola Municipal
Gulf	N.D.
Okaloosa	Bob Sikes Destin-Fort Walton Beach Eglin A.F.B.
Santa Rosa	Milton T. Field Fort Walton Beach
Walton	DeFuniak Springs

Table TRANS 34. Number of airports by type in 1980 (Florida Department of Transportation 1980a).

County	Commercial	General Aviation
Bay	1	0
Escambia	1	2
Franklin	0	2
Gulf	0	0
Okaloosa	1	2
Santa Rosa	0	2
Walton	0	1
Region	3	9

Table TRANS 35. Commercial airport passenger, cargo and mail in 1960, 1965, 1970, 1975, 1978 and 1979 (Florida Department of Transportation 1980a).

Year and county	Enplaned passengers	Total cargo (tons)	Mail (tons)
<u>1960</u>			
Bay County Panama City-Bay County	13,369	25.80	26.00
Escambia County Pensacola Regional	47,263	165.70	147.40
Okaloosa County Eglin A.F.B.	11,798	43.20	14.30
<u>1965</u>			
Bay County Panama City-Bay County	29,489	61.94	84.82
Escambia County Pensacola Regional	86,671	181.38	241.63
Okaloosa County Eglin A.F.B.	26,103	110.39	38.30
<u>1970</u>			
Bay County Panama City-Bay County	42,793	162.00	137.00
Escambia County Pensacola Regional	159,682	722.00	753.00
Okaloosa County Eglin A.F.B.	70,484	593.00	111.00

Continued

Table TRANS 35. Concluded:

Year and county	Enplaned passengers	Total cargo (tons)	Mail (tons)
<u>1975</u>			
Bay County Panama City-Bay County	69,341	149.87	46.22
Escambia County Pensacola Regional	180,341	413.60	1,083.51
Okaloosa County Eglin A.F.B.	96,113	270.22	79.36
<u>1978</u>			
Bay County Panama City-Bay County	82,118	140.46	63.66
Escambia County Pensacola Regional	246,558	478.70	855.17
Okaloosa County Eglin A.F.B.	116,738	300.03	1.10
<u>1979</u>			
Bay County Panama City-Bay County	75,564	N.D.	N.D.
Escambia County Pensacola Regional	270,004	N.D.	N.D.
Okaloosa County Eglin A.F.B.	115,887	N.D.	N.D.

Table TRANS 36 . Total air carrier operations^a, first and second level^b, for Florida commercial airports for 1970, 1975 and 1980 (Federal Aviation Administration ca. 1971, ca. 1976, ca. 1981; Florida Department of Transportation 1981a) .

Airport	Year		
	1970	1975	1980
Pensacola	10,043	8,505	9,222
Panama City	6,544	7,884	4,566
Eglin	7,790	9,747 ^c	6,330

^a Landings and take-offs.

^b Includes international carriers (Pan Am, TWA, Eastern, National). Data does not include commuter flights.

^c 1974 data.

Table TRANS 37. Commercial airport facility characteristics in 1980 (Florida Department of Transportation 1981a).

Facility	Panama City- Bay County	Pensacola Regional	Eglin A.F.B.
Storage T-type hangars	15	20	0
Storage conventional hangars	5	6	0
Storage tie down positions	50	150	0
Heliport base	none	none	none
Sea plane base	none	none	none
# jets based	0	0	0
# total based aircraft	42	108	14
# military local	1,047	16,446	45,000
# military itinerant	3,393	3,492	45,000
# air carrier	6,945	9,958	9,855
# air taxi	3,063	1,930	2,000
Total runways	4	4	4
Runway # and lengths	#04 4,800 ft #22 4,800 ft #14 6,000 ft #32 6,000 ft	#07 6,000 ft #25 6,000 ft #16 3,000 ft #34 3,000 ft	#01 10,000 ft #19 10,000 ft #12 12,000 ft #30 12,000 ft

Table TRANS 38. Commercial airport based aircraft history and projections for 1970, 1974, 1980, 1985 and 1990
 (Florida Department of Transportation 1976a).

Airport	Actual			Forecast		
	1970	1974	1980	1985	1990	
Panama City-Bay County	45	88	90	106	142	
Pensacola Regional	73	98	110	171	245	
Eglin A.F.B.	N.D.	4	4	4	4	

Table TRANS 39. Commercial airport annual aircraft movements history and projections for 1970, 1974, 1980,
 1985 and 1990 (Florida Department of Transportation 1976a).

Airport	Actual			Forecast		
	1970	1974	1980	1985	1990	
Panama City-Bay County	N.D.	80,800	122,100	176,700	247,600	
Pensacola Regional	153,468	73,800	165,900	276,300	415,100	
Eglin A.F.B.	N.D.	N.D.	8,500	8,400	8,400	

Table TRANS 40. Commercial airports, air carrier enplanements, history and projections for 1960^a, 1965, 1970, 1974, 1980, 1985 and 1990 (Florida Department of Transportation 1976a).

Airport	1960	1965	1970	1974	1980	1985	1990
Panama City-Bay County	13,369	29,489	47,760	74,046	137,1000	205,1000	288,200
Pensacola Regional	47,263	86,671	165,580	187,239	400,000	650,000	1,000,000
Eglin A.F.B.	11,798	26,102	69,700	96,616	172,700	261,600	372,300

^a No data prior to 1960.

Table TRANS 41. Florida road mileage as of 31 December 1971 (Florida Department of Transportation 1972).

County	Interstate (mi)	Other state highway systems	Total state highway systems
Bay	0	201,446	201,446
Escambia	21,730	213,579	235,309
Franklin	0	109,656	109,656
Gulf	0	93,182	93,182
Okaloosa	25,192	179,492	204,684
Santa Rosa	25,916	222,483	248,399
Walton	11,676	206,288	217,964
Region	84,514	1,226,126	1,310,640
Florida	850,726	11,035,696	12,157,775

Table TRANS 42. Florida road mileage as of 31 December 1975 (Florida Department of Transportation 1976b).

County	Interstate (mi)	Other state highway systems	Total state highway systems
Bay	0	207.8	207.8
Escambia	21.7	194.0	215.7
Franklin	0	109.7	109.7
Gulf	0	93.2	93.2
Okaloosa	25.2	180.2	205.4
Santa Rosa	25.9	215.7	241.6
Walton	27.5	206.3	233.8
Region	100.3	1,206.9	1,307.2
Florida	996.3	10,774.8	12,098.6

County	Other (county and city maintained)	Total mi in county
Bay	1,100.0	1,430.7
Escambia	1,324.1	1,539.8
Franklin	278.2	470.2
Gulf	262.8	356.0
Okaloosa	1,216.5	1,421.9
Santa Rosa	1,017.2	1,412.0
Walton	963.3	1,197.1
Region	6,162.1	7,827.7
Florida	85,532.4	100,351.9

Table TRANS 43. Florida road mileage as of 31 December 1979 (Florida Department of Transportation 1980e).

County	Interstate (mi)	Other state highway systems	Total state highway systems
Bay	0	189.6	189.6
Escambia	21.7	222.2	243.9
Franklin	0	87.4	87.4
Gulf	0	84.4	84.4
Okaloosa	25.2	171.0	196.2
Santa Rosa	25.9	177.7	203.6
Walton	27.5	196.4	223.9
Region	100.3	1,128.7	1,229.0
Florida	1,125.2	10,216.8	11,669.1

County	Other (county and city maintained)	Total mi in county
Bay	1,334.8	1,524.4
Escambia	1,712.1	1,956.0
Franklin	372.8	460.2
Gulf	203.9	288.3
Okaloosa	1,267.0	1,463.2
Santa Rosa	1,340.9	1,544.5
Walton	996.1	1,220.0
Region	7,227.6	8,456.6
Florida	83,348.7	95,017.8

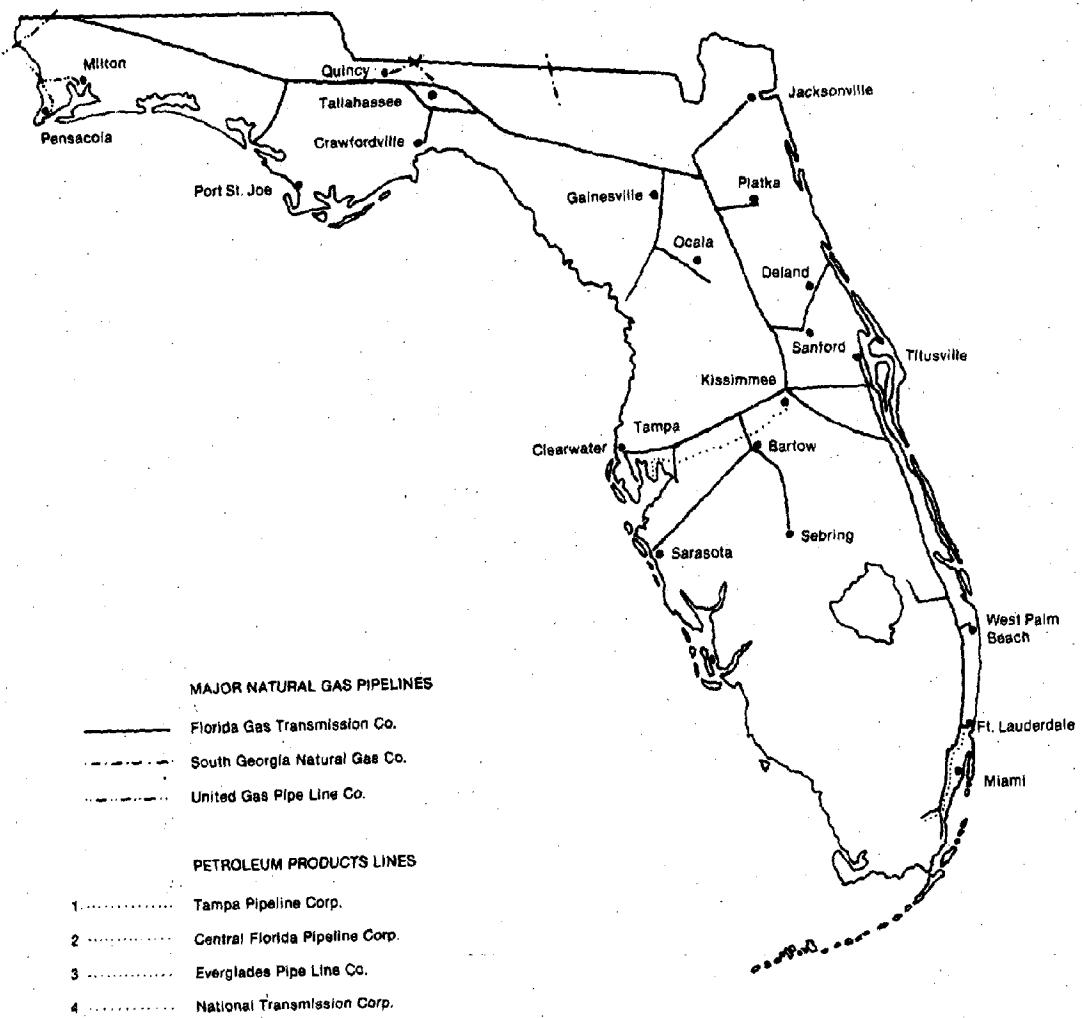


Figure 6. Pipelines in Florida (Florida Department of Transportation 1980b).

Table TRANS 44. Total number of motor vehicle license tags^a sold for 1955, 1960, 1965, 1970-71, 1975-76 and 1979-80 (Florida Department of Highway Safety and Motor Vehicles 1979, 1980).

	1955	1960	1965	1970-71	1975-76	1979-80
Bay	23,350	32,982	39,084	54,846	97,675	89,900
Escambia	58,747	81,834	98,145	129,119	217,502	204,767
Franklin	1,824	2,622	2,996	3,631	4,984	5,754
Gulf	3,582	4,542	5,035	6,036	7,962	8,358
Okaloosa	15,658	27,201	39,223	58,624	92,641	102,424
Santa Rosa	8,385	13,099	17,456	23,723	41,737	45,568
Walton	6,049	7,036	8,217	10,290	13,956	14,906
Region	117,595	169,316	210,156	286,269	476,457	471,677
Florida	1,800,969	2,703,881	3,439,211	4,875,493	8,218,658	10,180,656

^a Includes passenger vehicles, buses, trucks, trailers, recreational vehicles, motor cycles and mobile homes.

Table TRANS 45. Florida pipeline volumes in tons per day and annually by Department of Transportation District for 1970, 1972, 1973 and 1974-75 (Florida Department of Transportation 1980c).

	1970	1972	1973	1974	1975
District I	3,443	3,440	3,439	3,225	2,829
District II	2,408	2,068	1,745	1,902	1,589
District III	6,301	3,396	3,130	3,101	2,625
District IV	6,906	7,608	7,152	6,818	5,965
District V	968	3,520	3,789	4,217	3,867
Florida	20,026	20,032	19,255	19,263	24,856 ^a
Annual	7,309,490	7,311,680	7,028,075	7,031,105	9,072,440

^a Includes 7,981 tons per day delivered as exchange and transport and to compressor stations.

Table TRANS 46. Florida pipeline mileage in 1975 (Florida Department of Transportation 1980b).

Pipeline	mi
Natural gas lines:	
Florida Gas Transmission	2,482.8
Florida Gas (distribution)	2,212.0
South Georgia Natural Gas Co.	88.1
United Gas Pipe Line Co.	117.0
Total	4,899.9
Petroleum products lines:	
Everglades Pipe Line Co.	35.0
National Transmission Corp.	23.5
Central Florida Pipeline Corp.	84.6
Tampa Pipeline	10.6
Total	153.7
Crude oil collector lines:	
Sunniland Pipeland Co.	200.0
Exxon Pipeline Co. (Jay)	30.0
South Florida Gathering Lines	75.0
Total	305.0
Grand Total	5,358.6

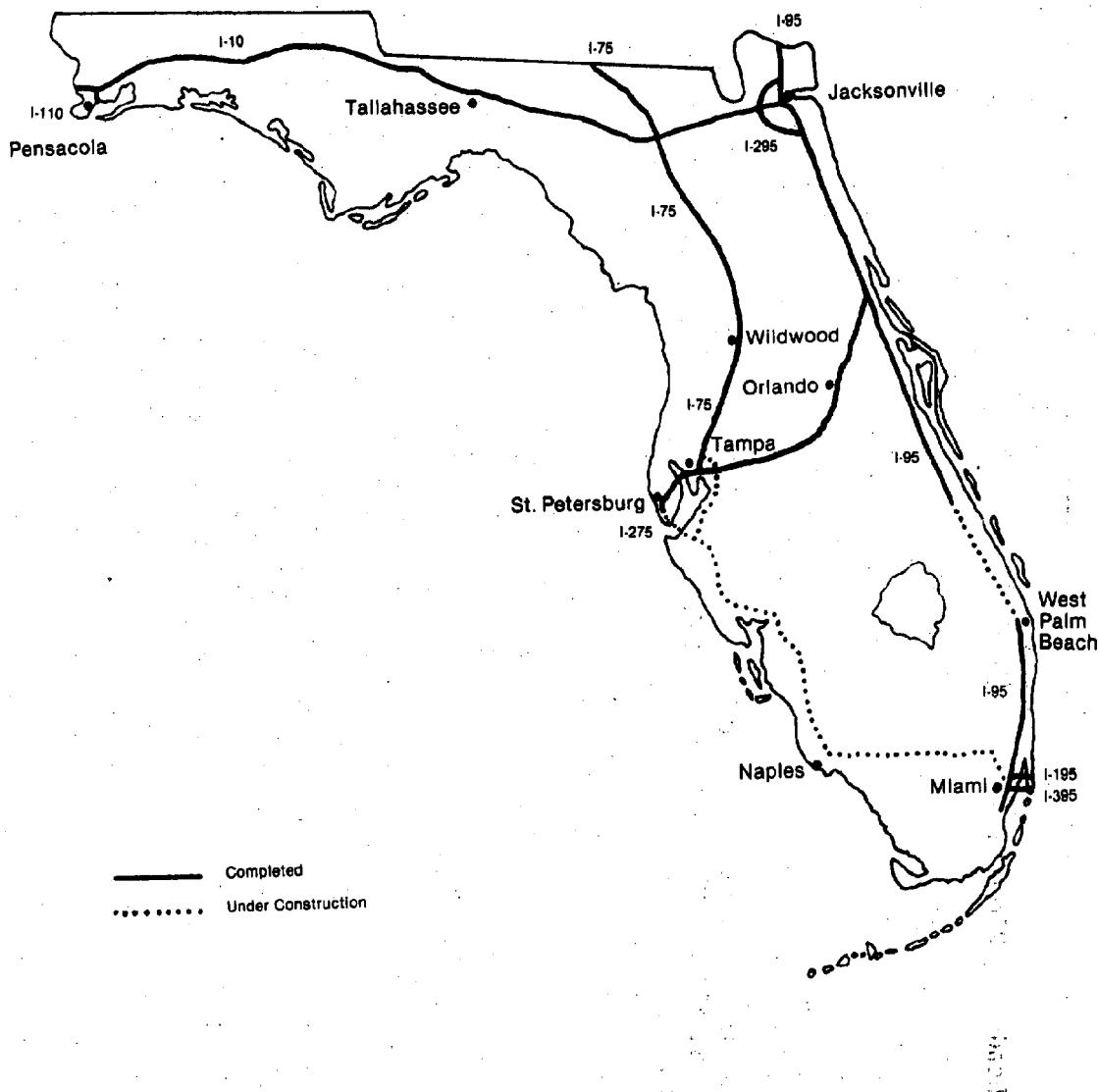


Figure 7. Florida highways (Florida Department of Transportation 1978b).

Table TRANS 47. Roadway characteristics and volume range of average daily traffic in 1965 and 1977 (Florida Department of Transportation, Division of Transportation Planning ca. 1981c, ca. 1981d).

Country	Road	Direction	Minimum width ft (meters)	Traffic volume range		Capacity level C
				1965	1977	
Bay	SR-20	EW.	24 { 7.32}	1,300 to 1,300	500 to 2,700	9,400
	SR-77	NS.	24 { 7.32}	1,600 to 4,000	3,300 to 10,100	9,400
	SR-79	NS.	24 { 7.32}	700 to 1,100	1,300 to 2,000	9,400
	U.S. 98	EW.	22 { 6.71}	2,000 to 10,800	11,600 to 20,300	8,800
	U.S. 231	NS.	48 { 14.63}	1,500 to 4,000	3,200 to 12,100	29,200
Escambia	SR-97	NS.	20 { 6.10}	1,500 to 2,000	1,300 to 3,300	8,100
	U.S. 29	NS.	24 { 7.32}	N.A.	5,600 to 37,900	9,400
	U.S. 90	EW.	24 { 7.32}	5,200 to 20,600	800 to 12,500	9,400
	U.S. 98	EW.	20 { 6.10}	2,400 to 12,700	6,200 to 28,900	8,100
	1-10	EW.	48 { 14.63}	900 to 3,100	10,200 to 13,200	29,200
Franklin	SR-65	NS.	18 { 5.49}	200 to 200	500 to 500	7,100
	SR-67	NS.	18 { 5.49}	N.A.	500 to 500	7,100
	U.S. 98	EW.	20 { 6.10}	1,000 to 1,700	1,300 to 3,100	8,100
	U.S. 319	NS.	24 { 7.32}	1,400 to 400	1,700 to 700	9,400
Gulf	SR-22	EW.	20 { 6.10}	500 to 1,700	1,800 to 1,800	8,100
	SR-71	NS.	22 { 6.71}	1,300 to 1,300	1,600 to 3,000	8,800
	SR-386	EW.	18 { 5.49}	50 to 300	500 to 500	7,100
	U.S. 98	EW.	24 { 7.32}	900 to 6,000	2,300 to 7,100	9,400
Okaloosa	SR-4	EW.	20 { 6.10}	500 to 500	800 to 800	8,100
	SR-85	NS.	24 { 7.32}	1,500 to 4,000	2,200 to 7,000	9,400
	SR-285	NS.	18 { 5.49}	900 to 2,200	1,300 to 1,300	7,100
	U.S. 90	EW.	24 { 7.32}	4,100 to 6,500	1,300 to 7,000	9,400

Table TRANS 47. Concluded.

County	Road	Direction	Minimum width ft (meters)	Traffic volume range		Capacity level C
				1965	1977	
Okaloosa	U.S. 98 I-10	EW. EW.	24 (7.32) 48 (14.63)	4,000 to 10,100 N.A.	9,100 to 21,400 5,600 to 6,800	9,400 29,200
Santa Rosa	SR-4 SR-87 SR-89 U.S. 90 U.S. 98 I-10	EW. ES. NS. EW. EW. EW.	20 (6.10) 20 (6.10) 20 (6.10) 24 (7.32) 48 (14.63) 48 (14.63)	500 to 1,800 900 to 5,900 700 to 900 4,000 to 11,800 3,700 to 12,700 N.A.	800 to 1,600 1,500 to 6,700 2,100 to 3,000 3,300 to 19,000 5,000 to 28,900 6,200 to 13,200	8,100 8,100 8,100 9,400 29,200 29,200
Walton	SR-2 SR-20 SR-81 SR-83 U.S. 90 U.S. 98 U.S. 331 I-10	EW. EW. NS. NS. EW. EW. NS. EW.	20 (6.10) 20 (6.10) 24 (7.32) 20 (6.10) 24 (7.32) 24 (7.32) 24 (7.32) 48 (14.63)	100 to 200 3,000 to 4,400 300 to 500 300 to 1,900 3,000 to 4,400 2,200 to 2,700 1,000 to 2,100 N.A.	500 to 400 1,300 to 1,700 600 to 800 500 to 5,100 1,600 to 2,100 3,700 to 5,100 1,100 to 3,400 3,100 to 6,100	8,100 8,100 9,400 8,100 9,400 9,400 9,400 29,200

Table TRANS 48. Interstate natural gas pipeline statistics in 1972-79 (U.S. Federal Power Commission ca. 1973d, ca. 1974d, ca. 1975d, ca. 1976c; U.S. Department of Energy ca. 1978, ca. 1979, ca. 1980, ca. 1981).

Year	Total gas receipts	Thousands ft ³			Mi of transmission pipe
		Total gas sales	Total gas deliveries	Total gas ft ³	
Florida Gas Transmission Co. (FL, LA, TX, MS, AL)					
1972	270,492,577	129,051,889	270,498,878	4,258	
1973	278,792,091	119,597,895	278,533,177	4,267	
1974	260,933,617	113,741,953	260,872,810	4,266	
1975	221,090,454	89,701,528	220,498,943	4,266	
1976	222,077,746	83,870,423	222,376,033	4,267	
1977	304,576,292	111,838,105	304,175,948	4,274	
1978	325,830,621	133,648,528	325,551,497	4,279	
1979	330,992,810	167,483,076	333,353,372	4,286	
South Georgia Natural Gas Co. (AL, FL, GA)					
1972	26,564,543	26,264,664	26,443,883	769	
1973	26,870,344	26,346,142	26,546,942	769	
1974	27,017,390	26,688,104	26,850,936	769	
1975	26,416,536	26,251,415	26,358,846	769	
1976	23,417,633	23,358,396	23,407,068	770	
1977	23,086,383	22,923,689	22,970,749	769	
1978	26,034,367	26,011,046	26,097,197	649	
1979	34,527,474	34,477,576	34,691,545	767	

Continued

Table TRANS 48 . Concluded.

Year	Total gas receipts	Thousands ft ³		M ³ of transmission pipe
		Total gas sales	Total gas deliveries	
United Gas Pipeline Co. (AL, FL, LA, MS, TX)				
1972	1,619,737,415	1,206,494,644	1,626,340,487	7,308
1973	1,578,117,222	1,075,134,897	1,588,667,615	7,308
1974	1,423,021,563	958,252,704	1,421,077,322	7,339
1975	1,443,210,078	873,133,887	1,436,922,889	7,309
1976	1,440,613,038	824,831,820	1,430,264,088	5,784
1977	1,546,132,684	837,201,098	1,536,942,255	7,247
1978	1,566,555,814	823,576,366	1,559,374,027	7,267
1979	1,880,152,581	934,856,538	1,869,313,722	7,287

Table TRANS 49. Miles of gas transmission pipe by diameter inches in 1979 (U.S. Department of Energy ca. 1981).

Company	0-5 inches	5.1-10 inches	10.1-15 inches	15.1-20 inches	20.1-25 inches	25.1-30 inches	over 30 inches
Florida Gas Transmission Co.	485	917	325	569	1,204	786	0
South Georgia Natural Gas Co.	295	266	206	0	0	0	0
United Gas Pipeline Co.	693	1,655	937	2,122	479	1,306	95

Table TRANS 50. Average daily traffic at Department of Transportation permanent traffic recording stations
 (Florida Department of Transportation, Division of Transportation Planning ca. 1981c).

Station	Location	County	1965	1970	1975	1980	<u>Percent change 1975-1980</u>
21	U.S. 98, at Philips Inlet	Bay	2,685	3,480	4,365	3,610	-17.3
48	U.S. 90, at Perdido River	Escambia	5,190	1,790	1,615	1,878	16.3
51	SR-83, N. of DeFuniak Springs	Walton	1,155	1,490	1,775	1,765	-0.6
53	U.S. 231, 3 mi S. of SR-20	Bay	2,645	3,745	N.A.	5,235	N.A.
60	U.S. 98, 5 mi S. of U.S. 319	Franklin Escambia	1,045 N.A.	1,360 14,530	1,875 13,685	1,835 9,724	-2.1 -28.9
82	U.S. 29, N. of U.S. 90	Okaloosa	N.A.	6,320	5,400	6,126	13.4
122	U.S. 90, 2 mi W. of SR-85	Escambia	N.A.	5,352	8,720	10,940	25.5
156	I-10, 1.5 mi W. of U.S. 90	N.A.	N.A.	N.A.	N.A.	17,745	N.A.
159	U.S. 29, N. of U.S. 90A	Escambia	N.A.	N.A.	N.A.	N.A.	N.A.

RECREATION AND TOURISM (R/T)

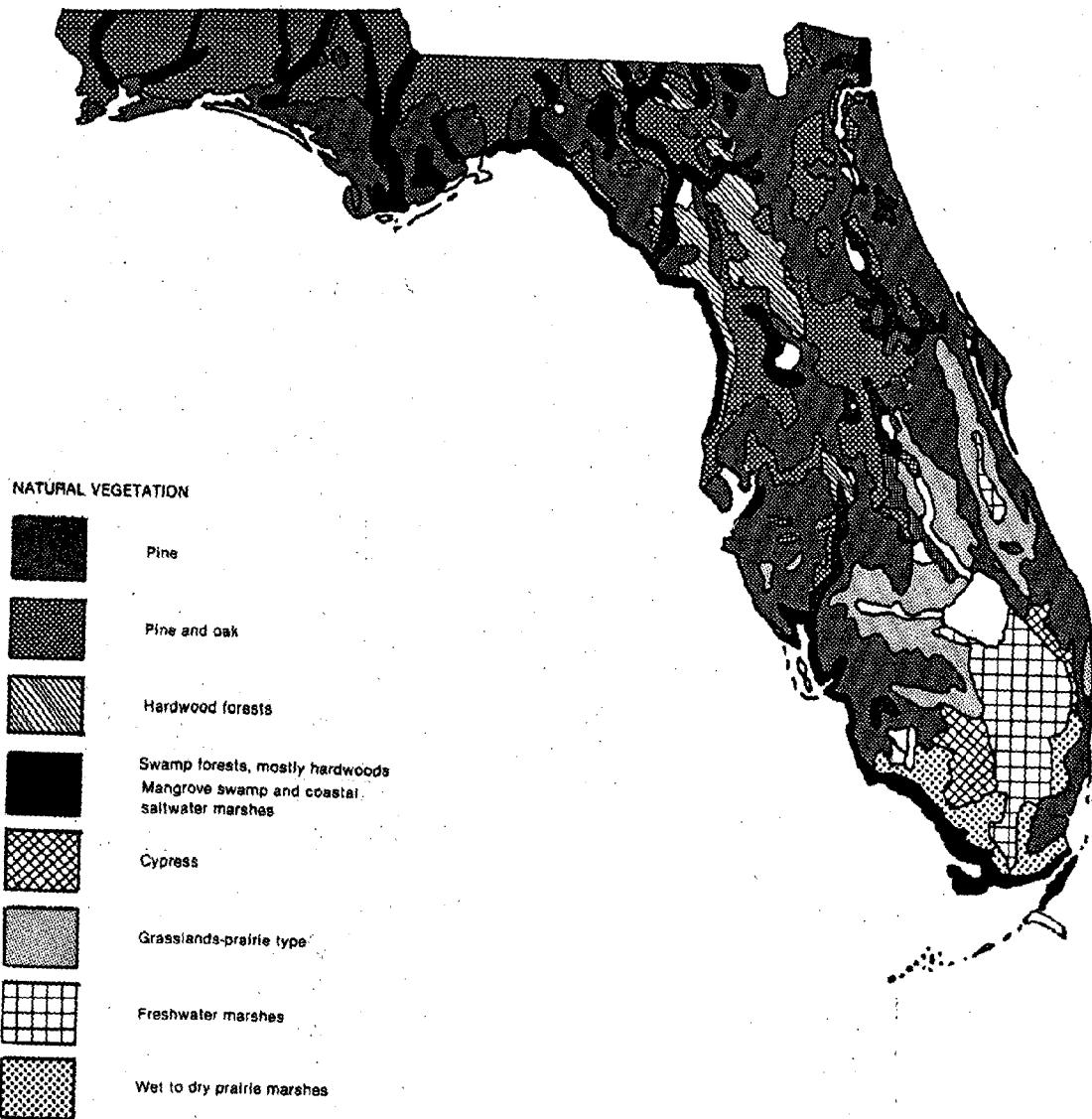


Figure 8. Natural vegetation of Florida (Wood and Fernald 1974).

Table R/T 1. Average temperatures^a ($^{\circ}$ F) in 1955 (National Oceanic and Atmospheric Administration 1956).

County	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Bay	53.0	58.0	65.5	70.5	76.4	76.7	80.6	81.8	79.6	67.2	58.5	54.3
Escambia	52.5	57.0	64.3	70.6	77.2	78.5	81.6	82.6	80.9	68.8	59.0	55.1
Franklin	53.3	56.8	64.1	70.5	76.6	77.5	81.1	82.0	80.2	69.9	60.6	54.5
Gulf	N.D.	N.D.	N.D.	N.D.								
Okaloosa	N.D.	N.D.	N.D.	N.D.								
Santa Rosa	51.9	55.8	64.0	69.3	75.5	76.1	80.0	81.5	78.7	65.8	58.2	53.9
Walton	53.1	57.6	65.6	71.5	77.3	78.5	80.4	82.0	79.3	68.0	59.2	53.8

^a Figures were derived by averaging the temperatures recorded at all the reporting stations within each county.

Table R/T 2. Average temperatures^a ($^{\circ}$ F) in 1960 (National Oceanic and Atmospheric Administration 1961).

County	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Bay	52.3	52.4	55.4	68.5	72.3	79.5	82.0	80.7	79.1	72.0	62.7	55.9
Escambia	50.9	51.2	54.9	68.2	71.2	80.9	83.3	81.4	78.6	71.5	61.4	50.7
Franklin	53.3	52.6	55.2	68.3	71.7	79.0	82.0	81.2	78.8	73.0	63.2	50.7
Gulf	53.5	54.0	56.6	69.6	72.5	79.6	82.4	81.1	79.3	72.4	63.2	50.9
Okaloosa	50.5	50.0	53.3	66.9	70.7	79.4	82.1	79.7	77.2	69.7	60.4	48.5
Santa Rosa	50.1	50.9	53.8	67.1	70.8	78.7	82.4	79.7	77.2	69.7	60.2	49.4
Walton	51.6	52.2	55.2	69.6	73.2	80.5	83.0	81.2	79.1	71.6	61.5	49.8

^a Figures were derived by averaging the temperatures recorded at all the reporting stations within each county.

Table R/T 3. Average temperatures^a ($^{\circ}$ F) in 1965 (National Oceanic and Atmospheric Administration 1966).

County	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Bay	52.7	54.1	59.2	71.3	74.6	77.9	80.2	80.3	79.4	68.3	62.5	53.3
Escambia	52.6	52.8	57.4	70.3	74.7	78.1	80.8	80.1	78.5	68.4	63.1	53.5
Franklin	54.0	54.7	60.1	70.5	75.6	77.5	80.8	81.3	79.2	70.0	63.6	54.9
Gulf	53.8	53.8	60.6	70.1	75.5	77.5	81.6	81.5	79.6	68.5	62.7	52.8
Okaloosa	49.3	50.8	57.4	70.5	73.8	78.2	80.5	80.5	77.4	68.5	52.3	65.9
Santa Rosa	53.2	53.6	58.4	70.8	73.3	77.1	80.0	79.1	76.9	67.3	62.7	52.7
Walton	51.0	52.1	58.2	69.6	72.8	76.1	78.0	77.8	76.4	64.8	60.6	50.9

a Figures were derived by averaging the temperatures recorded at all the reporting stations within each county.

Table R/T 4. Average temperatures^a ($^{\circ}$ F) in 1970 (National Oceanic and Atmospheric Administration 1971).

County	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Bay	45.9	50.9	60.2	70.6	75.0	79.0	81.8	81.2	80.4	71.2	54.2	56.6
Escambia	46.4	51.3	59.8	71.1	76.1	80.6	83.1	82.2	82.2	72.1	57.3	56.7
Franklin	47.5	52.1	60.7	70.8	76.2	80.3	82.3	81.6	81.4	73.6	57.5	58.0
Gulf	46.2	51.2	60.0	71.0	76.3	78.5	81.1	81.3	80.8	71.1	54.9	56.7
Okaloosa	44.8	50.6	58.0	69.0	74.3	78.6	81.0	81.7	79.8	69.3	52.4	55.2
Santa Rosa	45.3	50.0	58.7	70.2	73.6	78.2	81.2	80.8	79.0	69.1	54.8	56.4
Walton	N.D.	49.7	58.4	70.0	73.5	77.1	80.5	80.4	78.8	68.8	53.9	55.1

a Figures were derived by averaging the temperatures recorded at all the reporting stations within each county.

Table R/T 5. Average temperatures^a ($^{\circ}$ F) in 1975 (National Oceanic and Atmospheric Administration 1976).

County	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Bay	54.8	58.8	59.8	65.0	75.5	79.4	79.2	80.3	75.4	69.9	60.5	51.9
Escambia	57.3	60.9	61.6	67.2	76.9	81.7	82.1	82.0	76.1	70.7	61.4	52.7
Franklin	57.2	60.2	61.3	66.5	76.7	79.9	79.3	81.1	76.6	71.8	61.7	53.5
Gulf	57.0	60.6	61.1	66.0	77.1	80.0	79.8	81.0	75.5	70.9	60.8	52.6
Okaloosa	53.3	57.4	59.1	65.1	76.0	79.2	79.8	80.5	74.9	69.1	59.3	49.3
Santa Rosa	56.8	61.0	61.9	66.6	76.6	79.6	81.0	81.0	74.8	69.8	60.5	51.9
Walton	55.1	59.1	59.7	65.3	76.0	79.0	79.6	80.2	73.3	68.6	59.9	51.5

^a Figures were derived by averaging the temperatures recorded at all the reporting stations within each county.

Table R/T 6. Average temperatures^a ($^{\circ}$ F) in 1980 (National Oceanic and Atmospheric Administration 1981).

County	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Bay	53.6	49.7	59.0	65.0	73.5	79.0	83.0	81.8	80.3	N.D.	N.D.	N.D.
Escambia	55.3	51.1	60.6	65.6	75.1	81.2	85.4	83.7	81.3	N.D.	N.D.	N.D.
Franklin	54.3	51.0	60.8	65.4	73.5	78.7	81.9	81.9	80.4	N.D.	N.D.	N.D.
Gulf	55.7	51.2	62.6	66.3	74.5	79.3	82.3	81.4	81.2	N.D.	N.D.	N.D.
Okaloosa	53.3	48.6	59.7	64.0	74.0	78.7	83.5	82.2	80.7	N.D.	N.D.	N.D.
Santa Rosa	54.0	48.6	59.5	64.4	74.3	79.7	83.7	81.9	81.2	N.D.	N.D.	N.D.
Walton	53.3	49.2	60.4	64.6	73.9	78.9	83.2	81.2	79.7	N.D.	N.D.	N.D.

^a Figures were derived by averaging the temperatures recorded at all the reporting stations within each county.

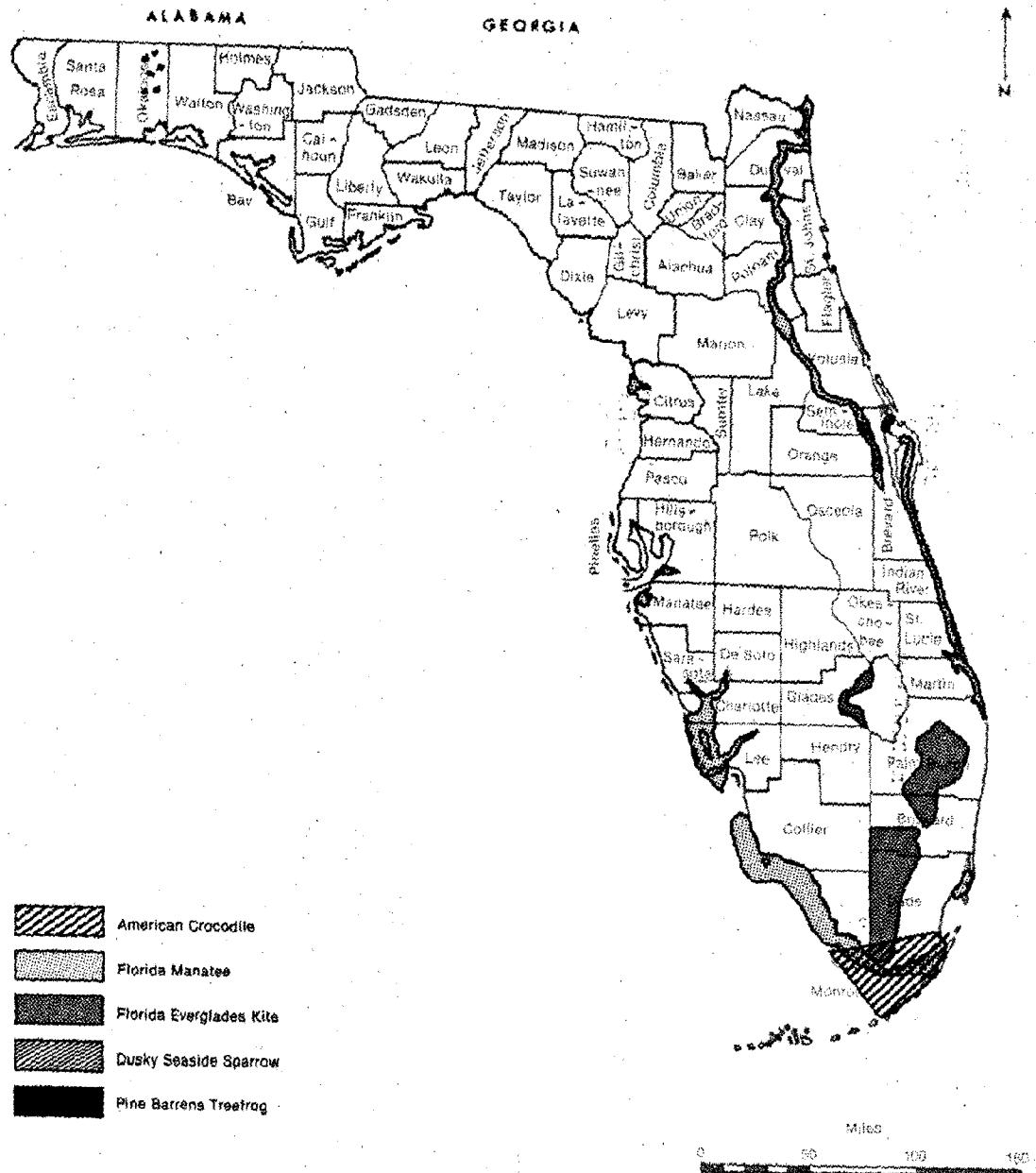


Figure 9. Critical habitats in Florida (Florida Power and Light Co. 1979).

Table R/T 7. Land area and elevation, and climate in 1980 (Florida Department of Commerce, Division of Economic Development, 1980b).

County	Land area (mi. ²)	Elevation (ft.)	Average annual rainfall (in)	Average summer temperature (°F)	Average winter temperature (°F)
Bay	747	21	57.86	81.9°	53.2°
Escambia	665	20	58.60	80.9	53.1
Franklin	536	0-24	58.36	81.7	53.7
Gulf	565	15	58.36	81.7	53.7
Okaloosa	944	4-300	63.70	80.3	51.4
Santa Rosa	1,032	10	58.85	80.5	53.8
Walton	1,053	266-345	65.70	80.8	52.8

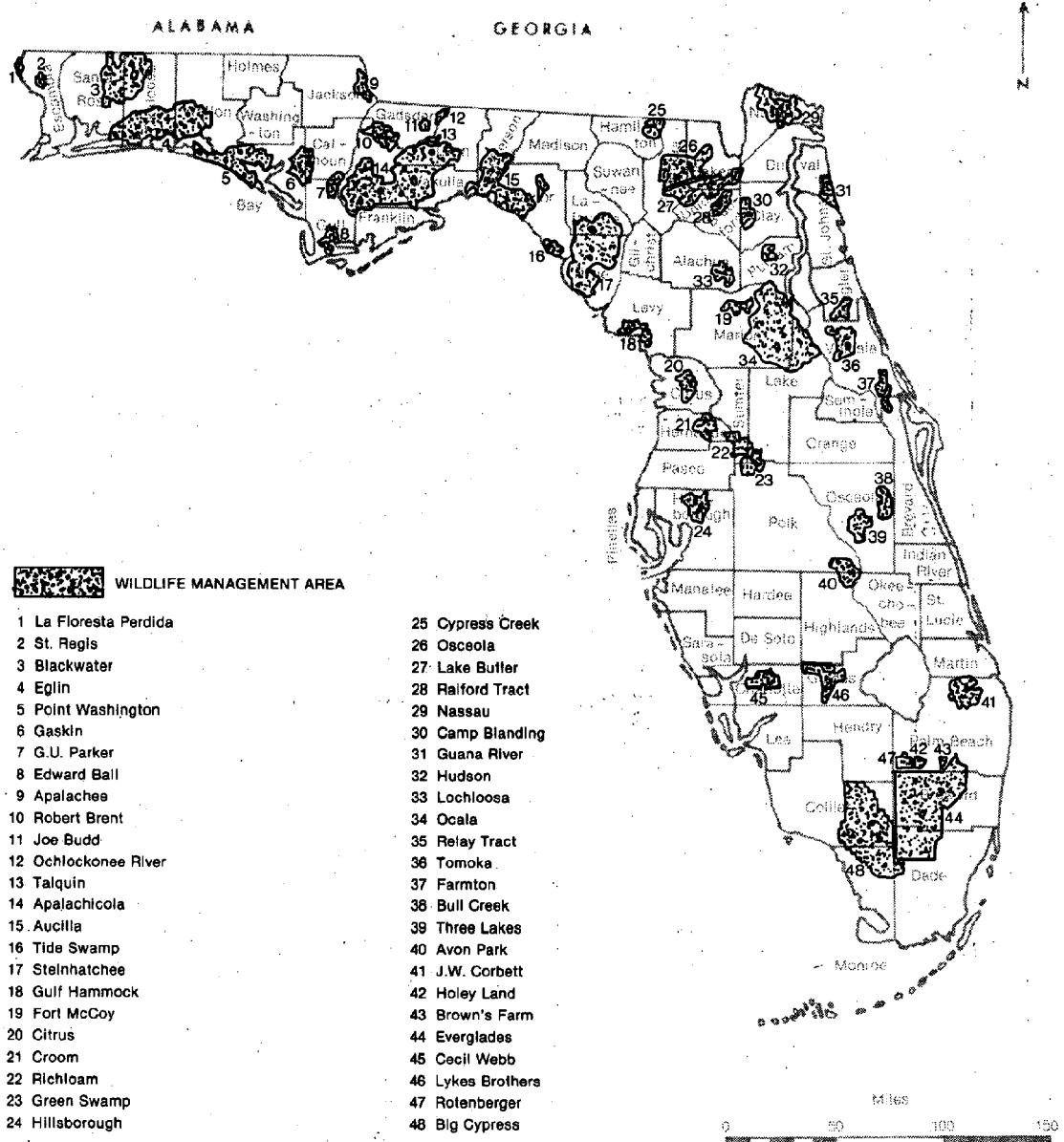


Figure 10. State Wildlife Management Areas (Florida Power and Light Co. 1979).

Table R/T8. Demand, supply, and needs for selected outdoor recreation activities in Bay County in 1980, and projected for 1985 and 1990 (Florida Department of Natural Resources, Division of Recreation and Parks 1980d).

Recreational activity	Demand		Supply	
	Resident and tourist user occasions (thousands)		Resource facility units 1980	User occasions 1980
	1980	1985		
Saltwater beach activities	4,239.0	4,699.6	5,172.2	7,819
Freshwater swimming (non-pool)	339.0	377.2	415.2	0
Saltwater fishing (boat)	572.1	636.1	700.2	N.D.
Saltwater fishing (non-boat)	671.4	746.7	822.0	3,365
Freshwater fishing (boat)	37.3	43.4	47.9	N.D.
Freshwater fishing (non-boat)	64.5	72.7	80.0	700 (1 in ft)
Boat ramp use, saltwater	236.5	264.2	290.9	32 (lanes)
Boat ramp use, freshwater	22.6	26.3	29.0	16 (lanes)
Camping, RV trailer	496.5	548.2	603.1	2,560
Camping, tent	13.8	16.1	17.1	2,274 (sites)
Picnicking	384.1	427.2	470.3	9,096
Horseback riding	5.6	6.6	7.3	912
Nature study	59.2	69.0	76.2	212 (tables)
Hiking	204.9	231.1	254.6	1,696
Canoeing	28.5	33.2	36.7	0
Bicycle riding	215.9	250.2	276.1	0
Visiting archaeological, historical sites	15.4	17.9	19.7	1,261

Continued

Table R/T 8. Continued.

Recreational activity	Demand			Supply		
	Resident and tourist user occasions (thousands)		Resource facility units 1980	User occasions 1980		
	1980	1985		1980	1990	
Hunting	75.0	86.8	95.8	152,279 (acres)	2,740,803	
Golf	117.8	132.2	145.6	201 (holes)	5,629	
Tennis	153.9	175.4	193.4	43 (courts)	946	
Baseball, softball	43.9	51.1	56.4	39 (fields)	3,628	
Football, soccer, rugby	14.7	17.2	18.9	5 (fields)	560	
Outdoor racquetball, handball	2.5	2.9	3.2	0 (courts)	0	
Outdoor basketball	38.2	44.5	49.2	14 (goals)	504	
Outdoor swimming pool use	1,351.8	1,494.0	1,643.9	10 (pools)	2,953	
Outdoor shuffleboard	174.8	192.3	211.5	10 (courts)	160	

Continued

Table R/T 8. Continued.

Recreational activity	User occasions			Needs
	1980	1985	1990	
Saltwater beach activities	13,188	15,470	17,812	
Freshwater swimming (non-pool)	1,680	1,869	2,058	
Saltwater fishing (boat)	N.D.	N.D.	N.D.	
Saltwater fishing (non-boat)	0	335	708	
Freshwater fishing (boat)	N.D.	N.D.	N.D.	
Freshwater fishing (non-boat)	203	243	280	
Boat ramp use, saltwater	0	0	0	
Boat ramp use, freshwater	0	0	0	
Camping, RV trailer	0	0	0	
Camping, tent	0	0	0	
Picnicking	207	421	634	
Horseback riding	28	33	36	
Nature study	0	0	0	
Hiking	865	995	1,112	
Canoeing	N.D.	N.D.	N.D.	
Bicycle riding	1,070	1,240	1,368	
Visiting archaeological, historical sites	0	0	0	

Continued

Table R/T 8. Concluded.

Recreational activity	Needs		
	1980	1985	1990
Hunting	0	0	0
Golf	0	0	0
Tennis	0	0	0
Baseball, softball	0	0	0
Football, soccer, rugby	0	0	0
Outdoor racquetball, handball	12	15	16
Outdoor basketball	0	0	0
Outdoor swimming pool use	2,746	3,450	4,193
Outdoor shuffleboard	706	793	888

a Recreational vehicle.

Table RT/ 9. Demand, supply and needs for selected outdoor recreation activities in Escambia County in 1980, and projected for 1985 and 1990 (Florida Department of Natural Resources, Division of Recreation and Parks 1980d).

Recreational activity	Demand			Supply				
	Resident and tourist user occasions (thousands)	1980	1985	1990	Resource facility units	1980	User occasions	1980
Saltwater beach activities	1,142.5	1,249.3	1,376.3	173,585 (1 in ft)	69,434			
Freshwater swimming (non-pool)	102.4	111.0	122.5	355 (1 in ft)	142			
Saltwater fishing (boat)	165.4	179.2	197.8	N.D.	N.D.			
Saltwater fishing (non-boat)	93.4	101.2	111.8	184,704 (1 in ft)	30,784			
Freshwater fishing (boat)	65.7	71.2	78.6	N.D.	N.D.			
Freshwater fishing (non-boat)	31.1	33.7	37.3	8,326 (1 in ft)	1,388			
Boat ramp use, saltwater	142.5	155.7	171.7	15 (lanes)	2,400			
Boat ramp use, freshwater	35.3	38.2	42.2	6 (lanes)	960			
Camping, RV trailer	298.0	327.3	360.2	479 (sites)	1,916			
Camping, tent	15.2	16.5	18.2	543 (sites)	2,172			
Picnicking	749.1	822.2	904.9	226 (tables)	1,808			
Horseback riding	11.1	12.0	13.2	1,010.0 (mi)	80,800			
Nature study	168.2	184.0	202.7	15.5 (mi)	3,875			
Hiking	208.0	228.0	251.1	101.0 (mi)	12,625			
Canoeing	16.6	18.0	19.9	47.0 (mi)	0			
Bicycle riding	315.6	341.9	377.5	1.5 (mi)	392			
Visiting archaeological, historical sites	911.4	1,000.8	1,101.4	3 (sites)	1,261			

Continued

Table R/T 9. Continued.

Recreational activity	Demand		Supply	
	Resident and tourist user occasions (thousands)		Resource facility units 1980	User occasions 1980
	1980	1990		
Hunting	200.0	214.8	237.2	51,131 (acres)
Golf	65.7	71.2	78.6	227 (holes)
Tennis	146.0	158.2	174.7	70 (courts)
Baseball, softball	130.8	141.7	156.5	59 (fields)
Football, soccer, rugby	78.9	85.5	94.4	9 (fields)
Outdoor racquetball, handball	22.1	24.0	26.5	2 (courts)
Outdoor basketball	141.2	152.9	168.9	67 (goals)
Outdoor swimming pool use	99.7	108.0	119.2	7 (pools)
Outdoor shuffleboard	0.0	0.0	0.0	2 (courts)

Continued

Table R/T 9. Continued.

Recreational activity	Needs		
	1980	User occasions 1985	1990
Saltwater beach activities	0	0	0
Freshwater swimming (non-pool)	366	408	465
Saltwater fishing (boat)	N.D.	N.D.	N.D.
Saltwater fishing (non-boat)	0	0	0
Freshwater fishing (boat)	0	0	0
Freshwater fishing (non-boat)	0	0	0
Boat ramp use, saltwater	0	0	0
Boat ramp use, freshwater	0	0	0
Camping, RV trailer	0	0	0
Camping, tent	0	0	0
Picnicking	1,904	2,266	2,676
Horseback riding	0	0	0
Nature study	0	0	0
Hiking	0	0	0
Canoeing	N.D.	N.D.	N.D.
Bicycle riding	1,172	1,302	1,479
Visiting archaeological, historical sites	3,256	3,698	4,197

Continued

Table R/T 9 Concluded.

	Needs		
	1980	1985	1990
Hunting	0	0	0
Golf	0	0	0
Tennis	0	0	0
Baseball, softball	0	0	0
Football, soccer, rugby	0	0	0
Outdoor racquetball, handball	46	55	67
Outdoor basketball	0	0	0
Outdoor swimming pool use	0	0	0
Outdoor shuffleboard	0	0	0

a Recreational vehicle.

Table R/T 10. Demand, supply and needs for selected outdoor recreation activities in Franklin County in 1980, and projected for 1985 and 1990 (Florida Department of Natural Resources, Division of Recreation and Parks 1980d).

Recreational activity	Demand			Supply		
	Resident and tourist user occasions (thousands)			Resource facility units 1980	User occasions 1980	
	1980	1985	1990			
Saltwater beach activities	61.5	68.6	75.8	156,015 (lin ft)	62,406	
Freshwater swimming (non-pool)	2.0	2.2	2.4	5 (lin ft)	2	
Saltwater fishing (boat)	25.0	27.9	30.8	N.D.	N.D.	
Saltwater fishing (non-boat)	15.9	17.9	19.8	479,471 (lin ft)	79,912	
Freshwater fishing (boat)	7.9	8.7	9.6	N.D.	N.D.	
Freshwater fishing (non-boat)	2.5	2.8	3.1	205 (lin ft)	34	
Boat ramp use, saltwater	20.8	23.2	26.7	9 (lanes)	1,440	
Boat ramp use, freshwater	6.2	6.8	7.6	11 (lanes)	1,760	
Camping, RV trailer	5.4	6.0	6.6	626 (sites)	2,504	
Camping, tent	1.0	1.1	1.2	9 (sites)	36	
Picnicking	10.3	11.4	12.6	62 (tables)	496	
Horseback riding	0.3	0.3	0.4	0 (mi)	0	
Nature study	4.3	4.7	5.2	85.0 (mi)	21,250	
Hiking	1.5	1.7	1.8	0 (mi)	0	
Canoeing	0.1	0.1	0.1	10.0 (mi)	0	
Bicycle riding	10.8	12.1	13.4	0 (mi)	0	
Visiting archaeological, historical sites	0.4	0.5	0.5	4 (sites)	1,681	

Continued

Table R/T 10. Continued.

Recreational activity	Needs			User occasions		
	1980	1985	1990	1980	1985	1990
Saltwater beach activities	0	0	0	0	0	0
Freshwater swimming (non-pool)	8	9	10	N.D.	N.D.	N.D.
Saltwater fishing (boat)	0	0	0	N.D.	N.D.	N.D.
Saltwater fishing (non-boat)	0	0	0	N.D.	N.D.	N.D.
Freshwater fishing (boat)	0	0	0	0	0	0
Freshwater fishing (non-boat)	0	0	0	0	0	0
Boat ramp use, saltwater	0	0	0	0	0	0
Boat ramp use, freshwater	0	0	0	0	0	0
Camping, RV trailer	0	0	0	0	0	0
Camping, tent	0	0	0	0	0	0
Picnicking	0	0	0	0	0	0
Horseback riding	1	2	2	0	0	0
Nature study	0	0	0	0	0	0
Hiking	7	8	9	N.D.	N.D.	N.D.
Canoeing	53	60	66			
Bicycle riding						
Visiting archaeological, historical sites	0	0	0			

Continued

Table R/T 10. Concluded.

Recreational activity	Demand			Supply		
	Resident and tourist user occasions (thousands)			Resource facility units		User occasions
	1980	1985	1990	1980	1990	1980
Hunting	40.6	45.3	50.2	42,667 (acres)	767,945	
Golf	11.6	13.0	14.3	9 (holes)	252	
Tennis	1.1	1.3	1.4	2 (courts)	44	
Baseball, softball	2.0	2.3	2.5	2 (fields)	186	
Football, soccer, rugby	0.1	0.1	0.1	4 (fields)	448	
Outdoor racquetball, handball	0.0	0.0	0.0	0 (courts)	0	
Outdoor basketball	0.6	0.6	0.7	0 (goals)	0	
Outdoor swimming pool use	0.9	1.0	1.1	4 (pools)	1,581	
Outdoor shuffleboard	0.0	0.0	0.0	0 (courts)	0	
<hr/>						
Needs						
Recreational activity	User occasions			User occasions		
	1980	1985	1990	1980	1985	1990
Hunting	0	0	0	0	0	0
Golf	0	0	0	0	0	0
Tennis	0	0	0	0	0	0
Baseball, softball	0	0	0	0	0	0
Football, soccer, rugby	0	0	0	0	0	0
Outdoor racquetball, handball	0	0	0	0	0	0
Outdoor basketball	3	3	4	3	3	4
Outdoor swimming pool use	0	0	0	0	0	0
Outdoor shuffleboard	0	0	0	0	0	0

a Recreational vehicle.

Table R/T 11. Demand, supply, and needs for selected outdoor recreation activities in Gulf County in 1980, and projected for 1985 and 1990 (Florida Department of Natural Resources, Division of Recreation and Parks 1980d).

Recreational activity	Demand			Supply		
	Resident and tourist user occasions (thousands)		1980	Resource facility units		User occasions 1980
	1985	1990		1980	1980	
Saltwater beach activities	50.9	54.2	59.7	48,580 (1 in ft)	19,432	
Freshwater swimming (non-pool)	2.5	2.6	2.9	0 (1 in ft)	0	
Saltwater fishing (boat)	15.1	16.1	17.8	N.D.	N.D.	
Saltwater fishing (non-boat)	28.0	29.8	33.8	45,581 (1 in ft)	8,097	
Freshwater fishing (boat)	29.6	31.5	34.7	N.D.	N.D.	
Freshwater fishing (non-boat)	16.5	17.6	18.4	0 (1 in ft)	0	
Boat ramp use, saltwater	5.2	5.5	6.1	6 (lanes)	960	
Boat ramp use, freshwater	17.7	18.8	20.8	24 (lanes)	3,840	
Camping, RV trailer	3.2	3.4	3.7	68 (sites)	272	
Camping, tent	8.1	8.6	9.4	149 (sites)	596	
Picnicking	15.9	16.9	18.6	71 (tables)	568	
Horseback riding	0.4	0.4	0.5	0 (mi)	0	
Nature study	7.3	7.8	8.6	2.5 (mi)	625	
Hiking	6.6	7.0	7.8	7.0 (mi)	875	
Canoeing	3.3	3.6	3.9	0 (mi)	0	
Bicycle riding	14.0	14.9	16.5	0 (mi)	0	
Visiting archaeological, historical sites	0.6	0.7	0.7	0 (sites)	0	

Continued

Table R/T 11. Continued.

Recreational activity	User occasions				Needs
	1980	1985	1990		
Saltwater beach activities	0	0	0	0	0
Freshwater swimming (non-pool)	12	13	14		
Saltwater fishing (boat)	N.D.	N.D.	N.D.		
Saltwater fishing (non-boat)	0	0	0		
Freshwater fishing (boat)	N.D.	N.D.	N.D.		
Freshwater fishing (non-boat)	82	87	96		
Boat ramp use, saltwater	0	0	0		
Boat ramp use, freshwater	0	0	0		
Camping, RV trailer	0	0	0		
Camping, tent	0	0	0		
Picnicking	0	0	0		
Horseback riding	2	2	2		
Nature study	0	0	0		
Hiking	0	0	0		
Canoeing	N.D.	N.D.	N.D.		
Bicycle riding	70	74	82		
Visiting archaeological, historical sites	3	3	4		

Continued

Table R/T 11. Concluded.

Recreational activity	Demand			Supply		
	Resident and tourist user occasions (thousands)		Resource facility units 1980	User occasions 1980		
	1980	1985		1980	1985	1990
Hunting	71.0	75.4	83.1	93,555 (acres)	1,683,855	
Golf	6.5	6.9	7.6	27 (holes)	756	
Tennis	2.3	2.5	2.7	8 (courts)	176	
Baseball, softball	6.7	7.1	7.9	11 (fields)	1,023	
Football, soccer, rugby	0.3	0.3	0.4	0 (fields)	0	
Outdoor racquetball, handball	0.0	0.0	0.0	0 (courts)	0	
Outdoor basketball	2.4	2.5	2.8	0 (goals)	0	
Outdoor swimming pool use	0.4	0.4	0.5	1 (pools)	395	
Outdoor shuffleboard	0.0	0.0	0.0	0 (courts)	0	
 Needs						
Recreational activity	User occasions					
	1980		1985	1990		
	1980	1985		1980	1985	1990
Hunting	0	0	0	0	0	
Golf	0	0	0	0	0	
Tennis	0	0	0	0	0	
Baseball, softball	0	0	0	0	0	
Football, soccer, rugby	2	2	2	2	2	
Outdoor racquetball, handball	0	0	0	0	0	
Outdoor basketball	12	13	14	14	14	
Outdoor swimming pool use	0	0	0	0	0	
Outdoor shuffleboard	0	0	0	0	0	

a Recreational vehicle.

Table R/T 12. Demand, supply and needs for selected outdoor recreation activities in Okaloosa County in 1980, and projected for 1985 and 1990 (Florida Department of Natural Resources, Division of Recreation and Parks 1980d).

Recreational activity	Demand		Supply	
	Resident and tourist user occasions (thousands)		Resource facility units	User occasions 1980
	1980	1985		
Saltwater beach activities	1,550.8	1,719.7	1,892.9	3,842
Freshwater swimming (non-pool)	178.5	200.3	220.6	0
Saltwater fishing (boat)	80.0	89.5	98.5	N.D.
Saltwater fishing (non-boat)	434.3	482.3	530.9	340,085 (1 in ft)
Freshwater fishing (boat)	44.4	51.1	56.3	N.D.
Freshwater fishing (non-boat)	127.4	146.3	161.5	6,540 (1 in ft)
Boat ramp use, saltwater	45.8	52.6	58.0	19 (lanes)
Boat ramp use, freshwater	35.8	41.2	45.4	54 (lanes)
Camping, RV trailer	304.6	335.7	369.3	793 (sites)
Camping, tent	155.6	171.6	188.8	133 (sites)
Picnicking	869.9	960.0	1,056.3	598 (tables)
Horseback riding	1.3	1.5	1.7	0 (mi)
Nature study	54.9	61.9	68.2	4.8 (mi)
Hiking	164.4	182.9	201.4	21.0 (mi)
Canoeing	47.8	54.9	60.5	192.2 (mi)
Bicycle riding	408.0	459.3	506.0	0 (mi)
Visiting archaeological, historical sites	19.9	22.9	25.2	4 (sites)
				1,681

Continued

Table R/T 12. Continued.

Recreational activity	User occasions			Needs
	1980	1985	1990	
Saltwater beach activities	3,842	4,679	5,537	
Freshwater swimming (non-pool)	884	992	1,093	
Saltwater fishing (boat)	N.D.	N.D.	N.D.	
Saltwater fishing (non-boat)	0	0	0	
Freshwater fishing (boat)	N.D.	N.D.	N.D.	
Freshwater fishing (non-boat)	0	0	0	
Boat ramp use, saltwater	0	0	0	
Boat ramp use, freshwater	0	0	0	
Camping, RV trailer	239	319	404	
Camping, tent	0	0	450	
Picnicking	0	0	0	
Horseback riding	7	8	8	
Nature study	0	0	0	
Hiking	0	0	0	
Canoeing	N.D.	N.D.	N.D.	
Bicycle riding	2,022	2,276	2,507	
Visiting archaeological, historical sites	0	0	0	

Continued

Table R/T 12. Concluded.

Recreational activity	Demand		Supply			
	Resident and tourist user occasions (thousands)		Resource facility units			
	1980	1990	1980	1980		
Hunting	141.5	162.1	178.9	237,668 (acres)	4,277,682	
Golf	143.3	164.6	181.6	243 (holes)	6,805	
Tennis	326.1	362.8	399.4	698 (courts)	1,518	
Baseball, softball	82.2	94.5	104.3	36 (fields)	3,349	
Football, soccer, rugby	46.4	53.3	58.9	7 (fields)	784	
Outdoor racquetball, handball	0.0	0.0	0.0	3 (courts)	96	
Outdoor basketball	274.6	304.7	335.4	30 (goals)	1,080	
Outdoor swimming pool use	716.2	79.40	875.6	10 (pools)	3,953	
Outdoor shuffleboard	48.8	53.7	59.0	6 (courts)	96	
 Needs						
Recreational activity	User occasions		User occasions			
	1980	1985	1980	1985		
Hunting			0	0	0	
Golf			0	0	0	
Tennis			98	279	461	
Baseball, softball			0	0	0	
Football, soccer, rugby			0	0	0	
Outdoor racquetball, handball			0	0	0	
Outdoor basketball			281	430	582	
Outdoor swimming pool use			0	0	386	
Outdoor shuffleboard			146	170	197	

a Recreational vehicle.

Table R/T 13. Demand, supply and needs for selected outdoor recreation activities in Walton County in 1980, and projected for 1985 and 1990 (Florida Department of Natural Resources, Division of Recreation and Parks 1980d).

Recreational activity	Demand			Supply		
	Resident and tourist user occasions (thousands)		Resource facility units 1980	User occasions 1980		
	1980	1985		1980	1985	
Saltwater beach activities	62.4	69.7	76.9	6,105 (lin ft)	2,442	
Freshwater swimming (non-pool)	22.9	25.5	28.2	10 (lin ft)	4	
Freshwater fishing (boat)	15.7	17.5	19.3	N.D.	N.D.	
Saltwater fishing (non-boat)	12.9	14.4	15.9	6,105 (lin ft)	1,018	
Freshwater fishing (boat)	35.1	39.1	43.1	N.D.	N.D.	
Freshwater fishing (non-boat)	26.5	29.6	32.7	15,870 (lin ft)	2,645	
Boat ramp use, saltwater	8.1	9.0	10.0	8 (lanes)	1,280	
Boat ramp use, freshwater	19.3	21.4	23.6	23 (lanes)	3,680	
Camping, RV trailer	10.5	11.6	12.7	548 (sites)	2,192	
Camping, tent	1.9	2.1	2.3	40 (sites)	160	
Picnicking	17.4	19.4	21.4	148 (tables)	1,184	
Horseback riding	5.8	6.5	7.1	.1 (mi)	8	
Nature study	4.1	4.6	5.1	.8 (mi)	200	
Hiking	13.9	15.6	17.2	.4 (mi)	50	
Canoeing	0.0	0.0	0.0	.7 (mi)	0	
Bicycle riding	20.7	23.1	25.5	.0 (mi)	0	
Visiting archaeological, historical sites	1.5	1.7	1.8	0 (sites)	0	

Continued

Table R/T 13. Continued.

Recreational activity	Needs		
	1980	User occasions 1985	1990
Saltwater beach activities	0	0	0
Freshwater swimming (non-pool)	110	123	136
Saltwater fishing (boat)	N.D.	N.D.	N.D.
Saltwater fishing (non-boat)	0	0	0
Freshwater fishing (boat)	N.D.	N.D.	N.D.
Freshwater fishing (non-boat)	0	0	0
Boat ramp use, saltwater	0	0	0
Boat ramp use, freshwater	0	0	0
Camping, RV trailer	0	0	0
Camping, tent	0	0	0
Picnicking	0	0	0
Horseback riding	21	24	27
Nature study	0	0	0
Hiking	19	27	35
Canoeing	N.D.	N.D.	N.D.
Bicycle riding	103	115	127
Visiting archaeological, historical sites	7	8	9

Continued

Table R/T 13. Concluded.

Recreational activity	Demand			Supply		
	Resident and tourist user occasions (thousands)			Resource facility units		
	1980	1985	1990	1980	1985	1990
Hunting	147.1	164.5	181.5	161,840 (acres)	2,912,887	
Golf	8.1	9.0	10.0	18 (holes)	504	
Tennis	5.7	6.4	7.0	5 (courts)	110	
Baseball, softball	11.3	12.6	13.9	2 (fields)	186	
Football, soccer, rugby	2.4	2.7	3.0	0 (fields)	0	
Outdoor racquetball, handball	0.0	0.0	0.0	0 (courts)	0	
Outdoor basketball	5.3	5.9	6.5	0 (goals)	0	
Outdoor swimming pool use	3.9	4.3	4.8	7 (pools)	2,767	
Outdoor shuffleboard	0.0	0.0	0.0	3 (courts)	48	
Needs						
Recreational activity	User occasions			Needs		
	1980	1985	1990	1980	1985	1990
Hunting				0	0	0
Golf				0	0	0
Tennis				0	0	0
Baseball, softball				0	0	0
Football, soccer, rugby				12	13	15
Outdoor racquetball, handball				0	0	0
Outdoor basketball				26	29	32
Outdoor swimming pool use				0	0	0
Outdoor shuffleboard				0	0	0

a Recreational vehicle.

Table R/T 14. Federal public recreation and park facility inventory in 1980^a
 (Florida Department of Natural Resources 1980, Division of Recreation and
 Parks 1980c).

Facility	Bay	Escambia	Franklin
Number of areas	0	1	3
Number of acres:			
total	0.0	22,506.1	34,196.0
land	0.0	3,829.1	33,951.0
water	0.0	18,677.0	245.0
parking	0.0	0.0	6.0
developed	0.0	22,506.1	21,838.0
undeveloped	0.0	0.0	0.0
Buildings:			
recreation centers	0	0	0
other	0	0	0
Playing fields:			
baseball	0	0	0
junior baseball	0	0	0
softball	0	0	0
football	0	0	0
Courts:			
tennis	0	0	0
basketball	0	0	0
shuffleboard	0	0	0
handball	0	0	0
Hunting acres:			
upland	0.0	0.0	3,0667.0
water	0.0	0.0	0.0
Boat ramps:			
saltwater	0	0	0
freshwater	0	0	1
Piers:			
saltwater	1	0	0
freshwater	0	0	0
Beach saltwater:			
footage (lin ft)	0	163,680	70,000
area (ft ²)	0	6,547,200	0
Beach freshwater:			
footage (lin ft)	0	0	200
area (ft ²)	0	0	30,000

Continued

Table R/T 14. Continued.

Facility	Bay	Escambia	Franklin
Trails: (tenths of mi)			
hiking	0.0	0.0	0.0
bicycle	0.0	0.0	0.0
horseback	0.0	0.0	0.0
motorbike	0.0	0.0	0.0
nature	0.0	1.5	85.0
waterway	0.0	0.0	0.0
multipurpose	0.0	0.0	0.0
Equipped playing areas	0	0	0
Regulation golf holes	0	0	0
Swimming pools	0	0	0
Picnic sites:			
shelters	0	0	0
tables	0	124	6
Historical, archaeological sites:			
museums	0	3	0
other	0	0	2
Campsites:			
RV trailer acres	0.0	300.0	27.0
tent acres	0.0	0.0	0.0
primitive acres	0.0	0.0	2.0
Marinas:			
saltwater	0	0	0
freshwater	0	0	0

Continued

Table R/T 14. Continued.

Facility	Gulf	Okaloosa	Santa Rosa
Number of areas	0	2	0
Number of acres:			
total	45.0	464,019.0	1,520.8
land	45.0	462,819.0	1,377.8
water	0.0	1,200.0	143.0
parking	0.0	0.0	0.0
developed	0.0	174,000.0	1,520.8
undeveloped	0.0	288,800.0	0.0
Buildings:			
recreation centers	0	0	0
other	0	0	0
Playing fields:			
baseball	0	0	0
junior baseball	0	0	0
softball	0	0	0
football	0	0	0
Courts:			
tennis	0	0	0
basketball	0	0	0
shuffleboard	0	0	0
handball	0	0	0
Hunting acres:			
upland	0.0	0.0	0.0
water	0.0	1,200.0	0.0
Boat ramps:			
saltwater	2	0	0
freshwater	36	0	0
Piers:			
saltwater	0	0	0
freshwater	0	0	0
Beach saltwater:			
footage (lin ft)	0	0	0
area (ft ²)	0	0	0
Beach freshwater:			
footage (lin ft)	0	0	0
area (ft ²)	0	0	0

Continued

Table R/T 14. Concluded.

Facility	Gulf	Okaloosa	Santa Rosa
Trails: (tenths of mi) ^a			
hiking	0.0	0.0	0.0
bicycle	0.0	0.0	0.0
horseback	0.0	0.0	0.0
motorbike	0.0	0.0	0.0
nature	1.1	0.0	0.0
waterway	55.2	0.0	0.0
multipurpose	0.0	0.0	0.0
Equipped playing areas	0	0	0
Regulation golf holes	0	0	0
Swimming pools	0	0	0
Picnic sites:			
shelters	0	0	0
tables	0	2	0
Historical, archaeological sites:			
museums	1	0	0
other	1	0	0
Campsites:			
RV trailer acres	0.0	0.0	0.0
tent acres	150.0	0.0	0.0
primitive acres	0.0	0.0	0.0
Marinas:			
saltwater	0	0	0
freshwater	0	0	0

^a No data for Walton County.^b Recreational vehicle.

Table R/T 15. State public recreation and park facility inventory in 1980
 (Florida Department of Natural Resources 1980, Division of Recreation and
 Parks 1980c).

Facility	Bay	Escambia	Franklin	Gulf
Number of areas	7	6	12	8
Number of acres:				
total	179,205.5	75,051.5	120,145.4	164,010.8
land	153,345.5	51,561.5	16,355.4	96,230.8
water	25,860.0	23,490.0	103,810.0	67,780.0
parking	3.7	0.0	1.0	1.1
developed	153,342.7	50,621.0	12,078.3	96,228.0
undeveloped	25,862.8	940.5	53,867.5	67,782.8
Buildings:				
recreation centers	0	0	0	0
other	0	0	0	2
Playing fields:				
baseball	0	0	0	0
junior baseball	0	0	0	0
softball	0	0	0	0
football	0	0	0	0
Courts:				
tennis	0	0	0	0
basketball	0	0	0	0
shuffleboard	0	0	0	0
handball	0	0	0	0
Hunting acres:				
upland	152,279.0	50,621.0	12,000.0	93,555.0
water	0.0	0.0	0.0	0.0
Boat ramps:				
saltwater	2	0	3	2
freshwater	0	0	1	3
Piers:				
saltwater	2	0	0	0
freshwater	0	0	4	0
Beach saltwater:				
footage (lin ft)	15,000	0	84,615	48,570
area (ft ²)	1,125,000	0	1,594,125	3,577,050
Beach freshwater:				
footage (lin ft)	0	0	0	0
area (ft ²)	0	0	0	0

Continued

Table R/T 15. Continued.

Facility	Bay	Escambia	Franklin	Gulf
Trails: (tenths of mi)				
hiking	0.0	0.0	0.0	7.0
bicycle	0.0	0.0	0.0	0.0
horseback	0.0	0.0	0.0	0.0
motorbike	0.0	0.0	0.0	0.0
nature	3.0	0.0	0.0	2.5
waterway	15.0	27.0	10.0	0.0
multipurpose	0.0	0.0	0.0	0.0
Equipped playing areas	0	0	0	0
Regulation golf holes	0	0	0	0
Swimming pools	0	0	0	0
Picnic sites:				
shelters	0	0	0	0
tables	134	0	44	53
Historical, archaeological sites:				
museums	0	0	0	1
other	0	0	0	0
Campsites:				
RV ^a trailer acres	0.0	0.0	0.0	0.0
tent acres	30.0	0.0	0.0	149.0
primitive acres	0.0	0.0	2.0	0.0
Marinas:				
saltwater	0	0	0	1
freshwater	0	0	0	0

Continued

Table R/T 15. Continued.

Facility	Okaloosa	Santa Rosa	Walton
Number of areas	0	2	0
Number of acres:			
total	237,397.8	166,910.0	162,535.8
land	236,667.8	157,653.0	162,095.8
water	730.0	9,257.0	440.0
parking	.4	1.5	1.3
developed	38,189.8	147,219.5	125,034.8
undeveloped	N.D.	N.D.	N.D.
Buildings:			
recreation centers	0	1	0
other	0	14	0
Playing fields:			
baseball	0	0	0
junior baseball	0	0	0
softball	0	0	0
football	0	0	0
Courts:			
tennis	0	0	0
basketball	0	0	0
shuffleboard	0	0	0
handball	0	0	0
Hunting acres:			
upland	0.0	159,336.0	161,840.0
water	0.0	0.0	0.0
Boat ramps:			
saltwater	1	1	3
freshwater	7	6	2
Piers:			
saltwater	0	1	0
freshwater	0	0	1
Beach saltwater:			
footage (lin ft)	2,950	1,500	6,000
area (ft ²)	147,500	10,000	422,000
Beach freshwater:			
footage (lin ft)	300	0	0
area (ft ²)	15,000	0	0

Continued

Table R/T 15. Concluded.

Facility	Okaloosa	Santa Rosa	Walton
Trails: (tenths of mi)			
hiking	21.0	17.0	0.0
bicycle	0.0	0.0	0.0
horseback	0.0	21.0	0.0
motorbike	0.0	0.0	0.0
nature	2.7	4.3	.8
waterway	82.0	54.0	7.0
multipurpose	0.0	0.0	0.0
Equipped playing areas	0	0	0
Regulation golf holes	0	0	0
Swimming pools	0	0	0
Picnic sites:			
shelters	0	0	0
tables	140	220	84
Historical, archaeological sites:			
museums	1	0	2
other	0	0	0
Campsites:			
RV trailer acres	10.0	106 spaces	5.0
tent acres	3.0	13.0	7.0
primitive acres	5.0	40.0	0.0
Marinas:			
saltwater	0	0	0
freshwater	0	0	0

^a Recreational vehicle.

Table R/T 16. County public recreation and park facility inventory in 1980
 (Florida Department of Natural Resources 1980, Division of Recreation and
 Parks 1980c).

Facility	Bay	Escambia	Franklin	Gulf
Number of areas	29	35	8	7
Number of acres:				
total	126.5	198.7	7.5	9.7
land	117.5	198.7	7.5	9.7
water	9.0	0.0	0.0	0.0
parking	3.5	5.0	0.0	6.5
developed	94.1	141.3	7.5	9.7
undeveloped	21.9	57.4	0.0	0.0
Buildings:				
recreation centers	5	2	0	0
other	0	0	0	0
Playing fields:				
baseball	1	5	0	0
junior baseball	13	6	0	0
softball	1	3	0	0
football	2	3	0	0
Courts:				
tennis	10	2	0	0
basketball	1	2	0	0
shuffleboard	1	0	0	0
handball	0	0	0	0
Hunting acres:				
upland	0.0	0.0	0.0	0.0
water	0.0	0.0	0.0	0.0
Boat ramps:				
saltwater	7	7	7	1
freshwater	6	0	0	5
Piers:				
saltwater	2	0	0	5
freshwater	0	0	0	0
Beach saltwater:				
footage (lin ft)	1,500	6,100	100	3,750
area (ft ²)	186,000	610,000	5,000	587,500
Beach freshwater:				
footage (lin ft)	0	0	0	0
area (ft ²)	0	0	0	0

Continued

Table R/T 16. Continued.

Facility	Bay	Escambia	Franklin	Gulf
Trails: (tenths of mi)				
hiking	0.0	0.0	0.0	0.0
bicycle	0.0	0.0	0.0	0.0
horseback	0.0	0.0	0.0	0.0
motorbike	0.0	0.0	0.0	0.0
nature	0.2	0.0	0.0	0.0
waterway	0.0	0.0	0.0	0.0
multipurpose	0.0	0.0	0.0	0.0
Equipped playing areas	5	7	0	0
Regulation golf holes	0	0	0	0
Swimming pools	0	0	0	0
Picnic sites:				
shelters	0	0	0	0
tables	21	31	2	11
Historical, archaeological sites:				
museums	0	0	0	0
other	1	0	0	0
Campsites:				
RV ^a trailer acres	0.0	0.0	0.0	0.0
tent acres	0.0	0.0	0.0	0.0
primitive acres	0.0	0.0	0.0	0.0
Marinas:				
saltwater	0	0	0	0
freshwater	0	0	0	0

Continued

Table R/T 16. Continued.

Facility	Okaloosa	Santa Rosa	Walton
Number of areas	29	5	8
Number of acres:			
total	187.1	39.0	29.1
land	147.4	39.0	29.1
water	28.7	0.0	0.0
parking	3.5	1.0	7.5
developed	174.9	39.0	0.0
undeveloped	1.2	0.0	0.0
Buildings:			
recreation centers	0	2	0
other	6	0	1
Playing fields:			
baseball	1	0	0
junior baseball	2	0	0
softball	0	2	0
football	0	0	0
Courts:			
tennis	2	5	0
basketball	0	1	0
shuffleboard	0	0	0
handball	0	0	0
Hunting acres:			
upland	0.0	0.0	0.0
water	0.0	0.0	0.0
Boat ramps:			
saltwater	3	3	2
freshwater	5	0	6
Piers:			
saltwater	1	2	0
freshwater	0	0	0
Beach saltwater:			
footage (lin ft)	3,750	2,575	100
area (ft ²)	587,500	133,000	2,500
Beach freshwater:			
footage (lin ft)	0	0	0
area (ft ²)	0	0	0

Continued

Table R/T 16. Concluded.

Facility	Okaloosa	Santa Rosa	Walton
Trails: (tenths of mi)			
hiking	0.0	0.0	0.0
bicycle	0.0	0.0	0.0
horseback	0.0	0.0	0.0
motorbike	0.0	0.0	0.0
nature	0.0	0.0	0.0
waterway	0.0	0.0	0.0
multipurpose	0.0	0.0	0.0
Equipped playing areas	1	0	1
Regulation golf holes	0	0	0
Swimming pools	0	0	0
Picnic sites:			
shelters	0	0	0
tables	130	46	16
Historical, archaeological sites:			
museums	1	0	0
other	0	0	0
Campsites:			
RV trailer acres	0.0	0.0	0.0
tent acres	0.0	0.0	0.0
primitive acres	0.0	0.0	0.0
Marinas:			
saltwater	0	0	0
freshwater	0	0	0

^a Recreational vehicle.

Table R/T 17. Municipal public recreation and park facility inventory in 1980
 (Florida Department of Natural Resources 1980, Division of Recreation and
 Parks 1980c).

Facility	Bay	Escambia	Franklin	Gulf
Number of areas	39	89	16	7
Number of acres:				
total	238.8	508.1	37.7	42.5
land	220.9	508.1	34.7	42.5
water	17.9	0.0	3.0	0.0
parking	11.0	3.0	0.0	0.0
developed	188.6	455.9	22.5	40.5
undeveloped	47.2	48.0	15.2	2.0
Buildings:				
recreation centers	8	14	0	3
other	3	7	0	4
Playing fields:				
baseball	4	23	3	1
junior baseball	10	6	0	8
softball	10	15	0	2
football	3	1	2	0
Courts:				
tennis	22	24	2	6
basketball	11	56	0	0
shuffleboard	6	0	0	0
handball	0	0	0	0
Hunting acres:				
upland	0.0	0.0	0.0	0.0
water	0.0	0.0	0.0	0.0
Boat ramps:				
saltwater	3	1	0	1
freshwater	0	2	1	0
Piers:				
saltwater	0	1	0	0
freshwater	0	0	0	0
Beach saltwater:				
footage (lin ft)	2,430	3,400	0	0
area (ft ²)	212,750	145,000	0	0
Beach freshwater:				
footage (lin ft)	0	0	0	0
area (ft ²)	0	0	0	0

Continued

Table R/T 17. Continued.

Facility	Bay	Escambia	Franklin	Gulf
Trails: (tenths of mi)				
hiking	0.0	1.0	0.0	0.0
bicycle	0.0	1.5	0.0	0.0
horseback	0.0	0.0	0.0	0.0
motorbike	0.0	0.0	0.0	0.0
nature	0.2	0.0	0.0	0.0
waterway	0.0	0.0	0.0	0.0
multipurpose	0.0	0.0	0.0	0.0
Equipped playing areas	15	51	1	3
Regulation golf holes	0	18	0	9
Swimming pools	1	0	0	0
Picnic sites:				
shelters	38	21	2	7
tables	21	31	2	11
Historical, archaeological sites:				
museums	0	0	0	0
other	2	2	2	0
Campsites:				
RV ^a trailer acres	0.0	0.0	0.0	0.0
tent acres	0.0	0.0	0.0	0.0
primitive acres	0.0	0.0	0.0	0.0
Marinas:				
saltwater	0	0	0	0
freshwater	0	0	0	0

Continued

Table R/T 17. Continued.

Facility	Okaloosa	Santa Rosa	Walton
Number of areas	46	8	8
Number of acres:			
total	325.7	194.9	57.7
land	319.3	193.9	42.7
water	6.4	1.0	15.0
parking	0.0	3.5	15.5
developed	301.9	186.0	62.7
undeveloped	23.8	10.4	0.0
Buildings:			
recreation centers	9	1	1
other	6	0	0
Playing fields:			
baseball	8	7	2
junior baseball	13	2	0
softball	12	2	0
football	6	2	0
Courts:			
tennis	35	12	2
basketball	26	6	0
shuffleboard	2	0	0
handball	3	0	0
Hunting acres:			
upland	0.0	0.0	0.0
water	0.0	0.0	0.0
Boat ramps:			
saltwater	1	7	2
freshwater	0	0	2
Piers:			
saltwater	2	1	0
freshwater	1	0	1
Beach saltwater:			
footage (lin ft)	2,890	4,840	0
area (ft ²)	148,100	136,160	0
Beach freshwater:			
footage (lin ft)	0	0	200
area (ft ²)	0	0	10,000

Continued

Table R/T 17. Concluded.

Facility	Okaloosa	Santa Rosa	Walton
Trails: (tenths of mi)			
hiking	0.0	0.0	0.0
bicycle	0.0	0.0	0.0
horseback	0.0	0.0	0.0
motorbike	0.0	0.0	0.0
nature	1.0	0.5	0.0
waterway	0.0	0.0	0.0
multipurpose	0.0	0.0	0.0
Equipped playing areas	21	2	7
Regulation golf holes	27	0	0
Swimming pools	0	0	0
Picnic sites:			
shelters	0	0	0
tables	141	30	16
Historical, archaeological sites:			
museums	3	0	0
other	2	0	0
Campsites:			
RV trailer acres	0.0	0.0	0.0
tent acres	0.0	0.0	0.0
primitive acres	0.0	0.0	0.0
Marinas:			
saltwater	0	0	0
freshwater	0	0	0

^a Recreational vehicle.

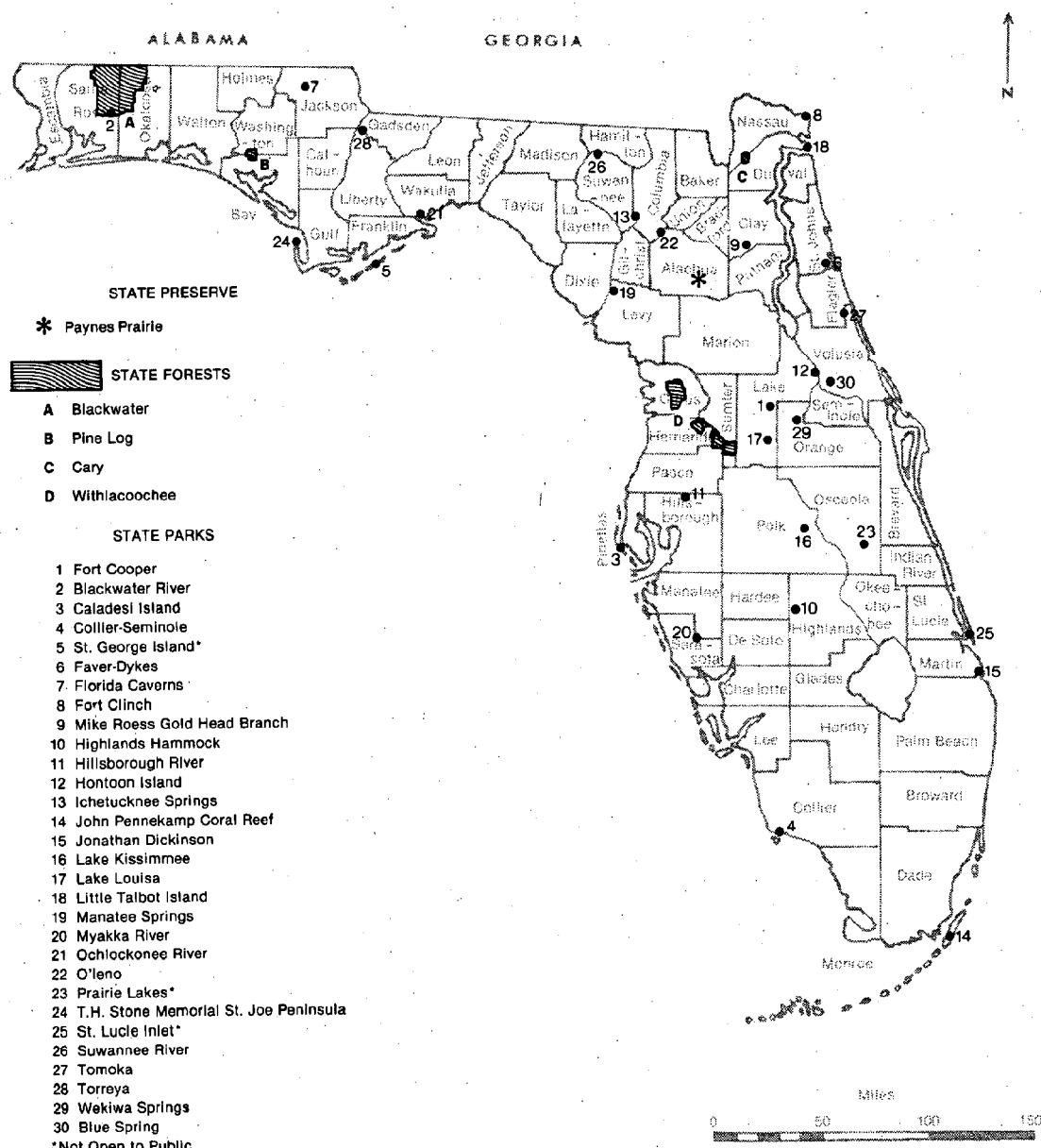


Figure 11. State preserves, forests, and parks (Florida Power and Light Co. 1979).

Table R/T 18. Private^a recreation and park facility inventory in 1980 (Florida Department of Natural Resources 1980, Division of Recreation and Parks 1980c).

Facility	Bay	Escambia	Franklin	Gulf
Number of areas	7	60	19	25
Number of acres:				
total	394.6	2,832.3	114.4	16.0
land	242.4	1,656.9	88.00	N.D.
water	0.0	256.5	6.0	N.D.
parking	0.4	114.1	0.0	N.D.
developed	50.2	1,026.2	21.0	N.D.
undeveloped	5.1	534.0	0.0	N.D.
Buildings:				
recreation centers	8	29	1	0
other	58	68	15	19
Playing fields:				
baseball	0	0	0	0
junior baseball	0	0	0	0
softball	0	1	0	0
football	0	1	0	0
Courts:				
tennis	11	44	0	2
basketball	2	9	0	0
shuffleboard	3	2	0	0
handball	0	2	0	0
Hunting acres:				
upland	0.0	0.0	0.0	0.0
water	0.0	510.0	0.0	0.0
Boat ramps:				
saltwater	20	6	8	5
freshwater	6	4	0	17
Piers:				
saltwater	6	3	4	1
freshwater	3	5	0	0
Beach saltwater:				
footage (lin ft)	610	405	1,300	10
area (ft ²)	50	25,000	9,000	50
Beach freshwater:				
footage (lin ft)	0	355	5	0
area (ft ²)	0	23,025	25	0

Continued

Table R/T 18. Continued.

Facility	Bay	Escambia	Franklin	Gulf
Trails: (tenths of mi)				
hiking	1.2	100.0	0.0	0.0
bicycle	0.0	0.0	0.0	0.0
horseback	0.0	1,010.0	0.0	0.0
motorbike	0.0	10.0	0.0	0.0
nature	0.1	14.0	0.0	0.0
waterway	0.0	20.0	0.0	0.0
multipurpose	0.0	0.1	0.0	0.0
Equipped playing areas	11	2	1	0
Regulation golf holes	201	2	9	18
Swimming pools	9	7	4	1
Picnic sites:				
shelters	0	3	0	0
tables	19	50	8	0
Historical, archaeological sites:				
museums	2	4	0	0
other	0	1	0	0
Campsites:				
RV trailer acres	11.2	15.2	89.0	0.0
tent acres	4.0	9.5	0.0	0.0
primitive acres	6.0	486.0	0.0	0.0
Marinas:				
saltwater	19	9	10	0
freshwater	1	0	0	0

Continued

Table R/T 18. Continued.

Facility	Okaloosa	Santa Rosa	Walton
Number of areas	50	32	18
Number of acres:			
total	2,118.7	1,138.2	2,131.0
land	1,873.8	1,069.0	1,560.0
water	54.0	68.5	549.0
parking	0.0	20.8	2.0
developed	700.5	399.5	80.0
undeveloped	659.0	707.5	0.0
Buildings:			
recreation centers	15	9	12
other	39	25	14
Playing fields:			
baseball	0	9	0
junior baseball	0	6	0
softball	0	0	0
football	0	0	0
Courts:			
tennis	32	14	3
basketball	4	7	0
shuffleboard	4	4	3
handball	0	0	0
Hunting acres:			
upland	640.0	8,037.0	0.0
water	0.0	0.0	0.0
Boat ramps:			
saltwater	4	8	1
freshwater	2	3	12
Piers:			
saltwater	1	61	0
freshwater	0	1	1
Beach saltwater:			
footage (lin ft)	15	3,650	5
area (ft ²)	1,375	83,500	25
Beach freshwater:			
footage (lin ft)	0	0	10
area (ft ²)	0	0	50

Continued

Table R/T 18. Concluded.

Facility	Okaloosa	Santa Rosa	Walton
Trails: (tenths of mi)			
hiking	0.0	16.0	0.4
bicycle	0.0	0.0	0.0
horseback	0.0	0.0	0.1
motorbike	0.0	1.0	0.0
nature	1.0	0.5	0.0
waterway	55.0	0.0	0.0
multipurpose	0.0	0.0	0.0
Equipped playing areas	4	3	3
Regulation golf holes	26	18	18
Swimming pools	10	7	7
Picnic sites:			
shelters	0	1	0
tables	185	62	32
Historical, archaeological sites:			
museums	4	0	0
other	1	0	0
Campsites:			
RV trailer acres	17.5	81.0	20.0
tent acres	1.3	4.0	20.0
primitive acres	0.0	10.0	1.0
Marinas:			
saltwater	11	5	0
freshwater	0	0	1

^a Includes non-profit with private or semi-private access, profit with public access and profit with private or semi-private access.

^b Recreational vehicle.

Table R/T 19. The number of air and auto tourists in Florida in 1976, 1979 and 1980 (Florida Department of Commerce, Division of Tourism ca. 1977b, ca. 1980b, ca. 1981b).

County	1976 ^a			1979			1980 ^b		
	Air	Auto	Total	Air	Auto	Total	Air	Auto	Total
Bay	16,054	844,108	860,162	22,060	1,627,445	1,649,505	0	743,900	743,900
Escambia	4,188	1,370,049	1,374,237	7,664	1,188,945	1,196,609	0	789,980	789,980
Franklin	0	26,392	26,392	10,200	23,946	34,146	0	0	0
Gulf	2,635	15,370	18,005	0	35,780	35,780	0	0	0
Okaloosa	1,257	1,611,369	1,612,626	9,898	1,026,690	1,036,588	0	552,000	552,000
Santa Rosa	0	127,102	127,102	0	143,785	143,785	0	0	0
Walton	0	183,587	183,587	0	12,745	12,745	0	0	0
Region	24,134	4,177,977	4,202,111	49,822	4,059,336	4,409,158	0	2,085,880	2,085,880
Florida	N.D.	N.D.	N.D.	3,494,380	11,024,787	14,519,167	2,347,800	5,810,980	8,158,780

^a No data prior to 1976.

^b 1980 data for first and second quarters only.

Table R/T 20. Number of visitors, visitor characteristics, and visitor expenditures in 1976^a (Florida Department of Commerce, Division of Tourism ca. 1977a, ca. 1980, ca. 1981).

County	Number of visitors	% repeat visitors	Total expenditures (\$)	Expenditures per person per day (\$)	Nights spent in county
Bay	N.D.	N.D.	N.D.	N.D.	N.D.
Escambia	1,349,728	82.83	136,055,622	22.62	4.58
Franklin	N.D.	N.D.	N.D.	N.D.	N.D.
Gulf	N.D.	N.D.	N.D.	N.D.	N.D.
Okaloosa ^b	1,364,868	82.0	90,496,399	17.10	4.1
Santa Rosa	N.D.	N.D.	N.D.	N.D.	N.D.
Walton	N.D.	N.D.	N.D.	N.D.	N.D.
Region	2,714,596	N.D.	226,552,021	N.D.	N.D.
Florida	N.D.	N.D.	N.D.	N.D.	N.D.

^a By auto survey, this type survey was not conducted prior to 1976.

^b Figures based on three quarters only; fourth quarter data not available.

Table R/T 21. Number of visitors, visitor characteristics, and visitor expenditures in 1979^a (Florida Department of Commerce, Division of Tourism ca. 1980b).

County	Number of visitors	% repeat visitors	Total expenditures (\$)	Expenditures per person per day (\$)	Nights spent in county
Bay	1,463,100	93.08	209,878,477	25.81	6.03
Escambia	1,557,500	86.53	211,993,050	32.72	4.13
Franklin	N.D.	N.D.	N.D.	N.D.	N.D.
Gulf	N.D.	N.D.	N.D.	N.D.	N.D.
Okaloosa ^b	859,600	89.8	150,964,869	29.98	5.70
Santa Rosa	N.D.	N.D.	N.D.	N.D.	N.D.
Walton	N.D.	N.D.	N.D.	N.D.	N.D.
Region	3,880,200	N.D.	572,836,396	N.D.	N.D.
Florida	N.D.	N.D.	N.D.	N.D.	N.D.

^a By auto survey.

^b Figures based on three quarters only; fourth quarter data not available.

Table R/T 22. Number of visitors, visitor characteristics, and visitor expenditures in 1980^a (Florida Department of Commerce, Division of Tourism ca. 1980b).

County	Number of visitors	% repeat visitors	Total expenditures (\$)	Expenditures per person per day (\$)	Nights spent in county
Bay ^b	1,208,100	93.3	164,328,740	25.95	5.3
Escambia ^b	1,432,100	88.7	200,485,881	32.78	4.2
Franklin	N.D.	N.D.	N.D.	N.D.	N.D.
Gulf	N.D.	N.D.	N.D.	N.D.	N.D.
Okaloosa ^c	359,400	91.5	55,042,110	30.63	5.0
Santa Rosa	N.D.	N.D.	N.D.	N.D.	N.D.
Walton	N.D.	N.D.	N.D.	N.D.	N.D.
Region	2,999,500	N.D.	419,856,731	N.D.	N.D.
Florida	N.D.	N.D.	N.D.	N.D.	N.D.

^a By auto survey.

^b Figures based on three quarters only; fourth quarter data not available.

^c Figures based on second quarter data only.

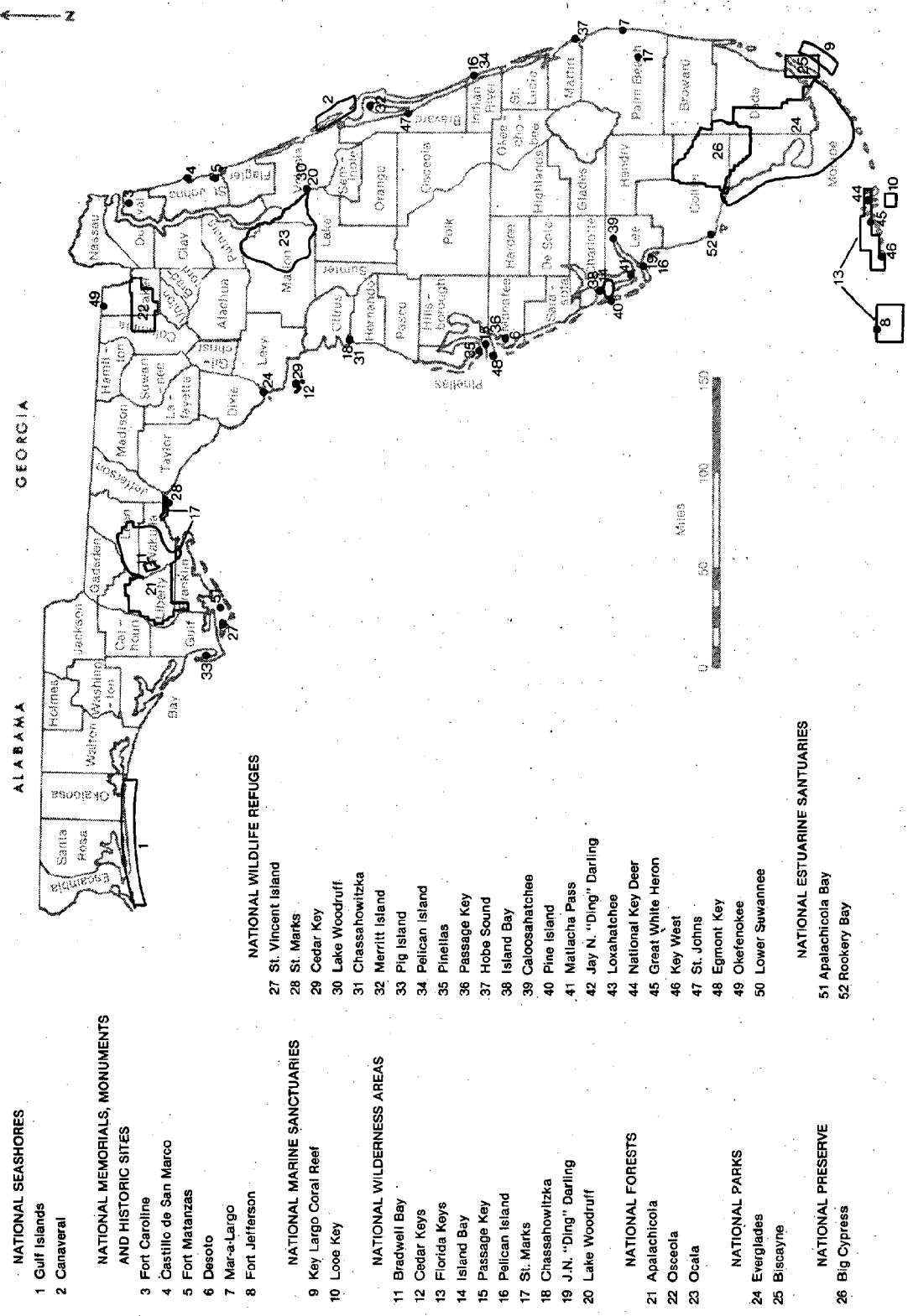


Figure 12. National seashores, memorials, monuments, historic sites, marine sanctuaries, estuarine sanctuaries, wilderness areas, forests, parks, wildlife refuges, and preserves (Florida Power and Light Co. 1979).

Table R/T 23. Number of assigned archaeological and historical sites in November 1980 (Florida Department of State, Bureau of Historic Sites and Properties 1980).

County	Number of sites
Bay	168
Escambia	225
Franklin	355
Gulf	18
Okaloosa	133
Santa Rosa	76
Walton	104
Region	1,079
Florida	N.D.

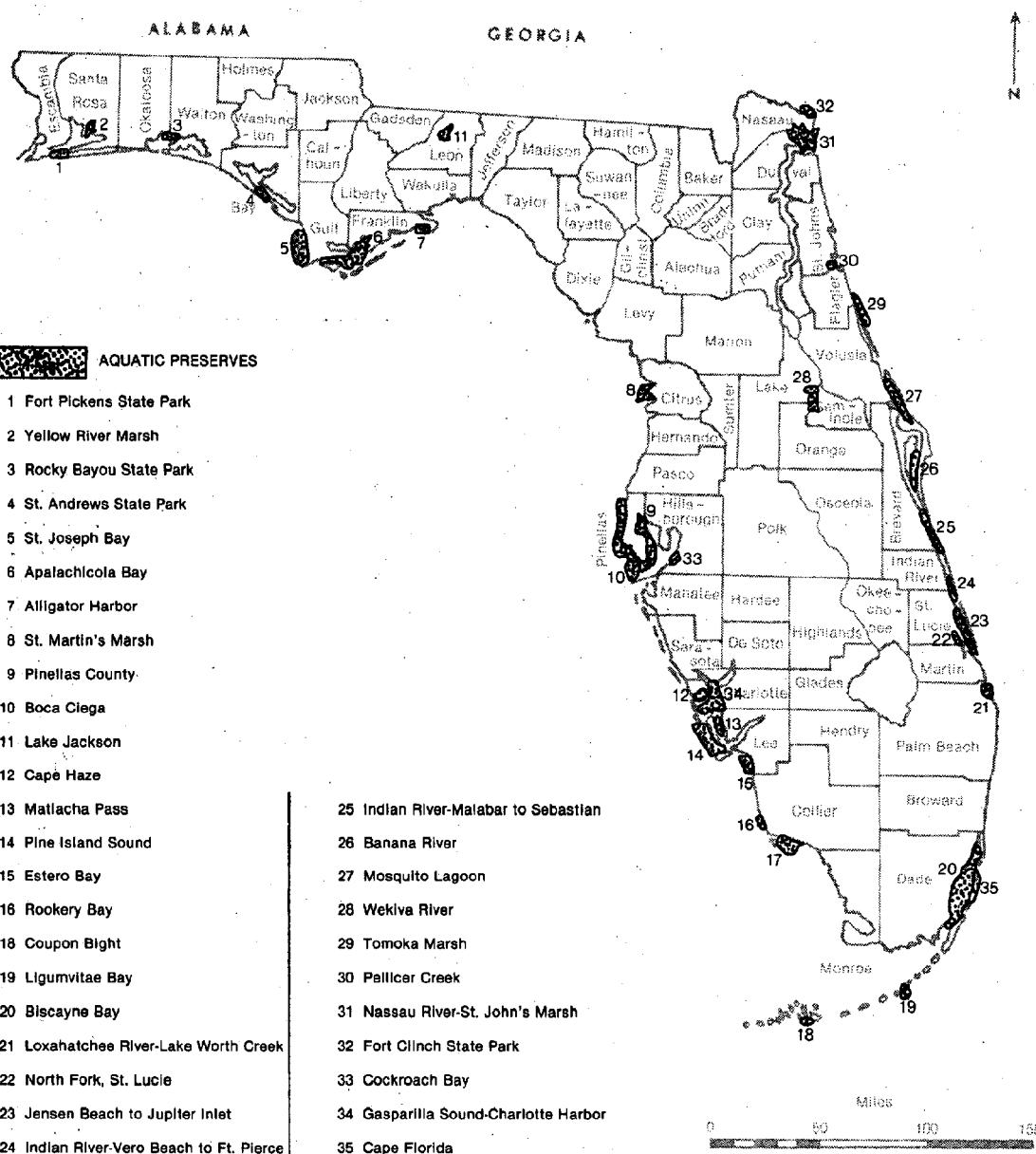


Figure 13. State Aquatic Preserves (Florida Power and Light Co. 1979).

Table R/T 24. Historic sites in northwestern Florida listed on the National Register (U.S. Department of the Interior, Heritage Conservation and Recreation Service 1979).

County and name of site	Date listed
Escambia	
American National Bank Building	17 November 1978
Clara Barkley Dorr House	24 July 1974
Fort George Site	8 July 1974
Fort San Carlos de Barrancas	15 October 1966
Charles William Jones House	20 December 1977
LoN Marine Terminal Building	14 August 1972
Lavalle House	11 March 1971
Old Christ Church	3 May 1974
Pensacola Athletic Club (Rafford Hall)	16 April 1975
Pensacola Historic District	29 September 1970
Pensacola Lighthouse and Keeper's Quarters	15 September 1974
Pensacola Naval Air Station Historic District	8 December 1976
Plaza Ferdinand VII	15 October 1966
Saenger Theater	19 July 1976
Buccaneer (Virginia)	2 November 1972
St. Michael's Creole Benevolent Association Hall	3 May 1974
Fort Pickens	31 May 1972
Louisville and Nashville Passenger Station and Express Building	11 June 1979
St. Joseph's Church Buildings	10 July 1979
Thiesen Building	13 December 1979
Perdido Key Historic District	10 March 1980
Franklin	
David G. Raney House	22 September 1976
Trinity Episcopal Church	30 June 1972
Pierce Site	11 January 1974
Crooked River Lighthouse	1 December 1978
Porter's Bar Site	23 January 1975
Cape St. George Light	10 September 1974
Yent Mound	24 May 1973
Fort Gadsen Historic Memorial (Negro Fort; British Fort)	23 February 1972
Okaloosa	
Fort Walton Mound	15 October 1966
Valparaiso Inn	1 August 1978
Walton	
DeFuniak Springs	7 August 1972
Sun Bright (Sidney Johnson Catts House)	7 May 1979

Table R/T 25. Recreational properties under the jurisdiction of the Florida Department of Natural Resources 1980 (Florida Department of Natural Resources, Division of Recreation and Parks 1980b).

Location and name of site	Acres Up land	Acres Submerged	Type of facility	Operational status
Bay County St. Andrews State Park	1,063	0	Recreational	Optimal
Escambia County Big Lagoon State Recreation Area	699	0	Recreational	Operational partly developed
Perdido Key State Preserve	247	0	Preserve	Under formal design
Franklin County Cape St. George State Preserve	2,295	0	Preserve	In reserve ^a
Dr. Julian G. Bruce St. George Island State Park	1,963	0	Park	Operational partly developed
Fort Gadsden State Historic Site	76	0	Historic	Operational partly developed
John Gorrie State Museum	1	0	Museum	Optimal
Gulf County Constitution Convention State Museum	14	0	Museum	Optimal
Dead Lakes State Recreation Area	66	18	Recreational	Optimal
Okaloosa County Fred Gannon Rocky Bayou State Recreation Area	632	0	Recreational	Operational partly developed

Continued

Table R/T 25. Concluded.

Location and name of site	Acres Up land	Acres Submerged	Type of facility	Operational status
Santa Rosa County				
Blackwater River State Park	360	0	Park	Operational partly developed
Walton County				
Basin Bayou State Recreation Area	287	0	Recreational	Operational partly developed
Eden State Gardens	12	0	Ornamental Garden	Operational partly developed
Grayton Beach State Recreation Area	276	80	Recreational	Operational partly developed
Ponce de Leon Springs State Recreation Area	433	0	Recreational	Operational partly developed

a Being held for future use pending sufficient increase in need or other conducive circumstances.
 b Owned by U.S. Department of Agriculture. The Department of Natural Resources has a special use permit until 18 May 1991.

c Leased from U.S. Air Force, expires 30 June 1982.

d Leased from U.S. Air Force, expires 30 June 1984.

e Includes Holmes County.

Table R/T 26. Visitor utilization of recreational properties under the jurisdiction of the Florida Department of Natural Resources for fiscal years 1965-66, 1970-71, 1974-75 and 1979-80 (Florida Department of Natural Resources, Division of Recreation and Parks 1980a).

Location and name of site	Number of visitors		
	1965-66	1970-71	1974-75
Bay County			
St. Andrews State Recreation Area	617,587	526,669	503,430
Escambia County			
Big Lagoon State Recreation Area	N.A.	N.A.	N.A.
Perdido Key State Preserve	N.A.	N.A.	N.A.
Franklin County			
Cape St. George State Preserve	N.A.	N.A.	N.A.
Dr. Julian G. Bruce St. George Island State Park	N.A.	N.A.	N.A.
Ft. Gadsden State Historic Site	3,336	5,055	5,369
John Gorrie State Museum	8,769	6,927	12,800
Gulf County			
Constitution Convention State Museum	5,511	4,330	8,044
Dead Lakes State Recreation Area	N.A.	N.A.	17,852
Okaloosa County			
Fred Gannon Rocky Bayou State Recreation Area	N.A.	50,851	48,799
			29,908 ^b

Continued

Table R/T 26. concluded.

Location and name of site	1965-66	1970-71	Number of visitors	
			1974-75	1979-80
Santa Rosa County				
Blackwater River State Park	N.A.	32,041	51,010	32,413 ^b
Walton County				
Basin Bayou State Recreation Area	N.A.	43,493	33,792	17,099 ^b
Eden State Gardens	N.A.	13,891	30,474	32,341 ^a
Grayton Beach State Recreation Area	N.A.	80,410	35,137	43,015 ^b
Ponce de Leon Springs State Recreation Area	N.A.	N.A.	14,765	33,906 ^a

^a Actual year-round full time entrance station figures.

^b Seasonal sample counts.

Table R/T 27. Florida boat registrations by type of vessel for FY 1965-66^a
 (Florida Department of Natural Resources, Division of Administration 1980).

County	Commercial	Pleasure	Total
Bay	857	2,496	3,353
Escambia	622	4,364	4,986
Franklin	975	90	1,065
Gulf	483	385	868
Okaloosa	320	2,194	2,514
Santa Rosa	323	873	1,196
Walton	288	259	547
Region	3,868	10,661	14,529
Florida	32,927	136,706	169,633

^a Registration of boats in Florida began in 1959. No data prior to 1965.

Table R/T 28. Florida boat registrations by type of vessel for FY 1970-71
 (Florida Department of Natural Resources, Division of Administration 1980).

County	Commercial	Pleasure	Total
Bay	986	3,832	4,818
Escambia	488	6,774	7,262
Franklin	878	204	1,082
Gulf	340	555	895
Okaloosa	297	3,506	3,803
Santa Rosa	209	1,414	1,623
Walton	226	438	664
Region	3,424	16,723	20,147
Florida	27,197	206,896	234,093 ^a

^a Includes 1,200 documented pleasure yachts.

Table R/T 29. Florida boat registrations by type of vessel for FY 1975-76
 (Florida Department of Natural Resources, Division of Administration 1980).

County	Commercial	Pleasure	Total
Bay	969	8,342	9,311
Escambia	642	11,619	12,261
Franklin	920	523	1,443
Gulf	307	1,055	1,362
Okaloosa	361	6,760	7,121
Santa Rosa	286	4,018	4,304
Walton	141	1,432	1,573
Region	3,626	33,749	37,375
Florida	26,784	390,681	436,348 ^a

^a Includes 18,883 registered boats which did not appear on county listings due to Department of Natural Resources computer problems.

Table R/T 30. Florida boat registrations by type of vessel for FY 1978-79
 (Florida Department of Natural Resources, Division of Administration 1980).

County	Commercial	Pleasure	Total
Bay	786	9,188	9,974
Escambia	463	13,205	13,668
Franklin	874	702	1,576
Gulf	197	1,240	1,437
Okaloosa	273	8,128	8,401
Santa Rosa	328	4,958	5,286
Walton	90	1,704	1,794
Region	3,011	39,125	42,136
Florida	20,477	453,500	480,953 ^a

^a Includes 2,535 state, county and city-owned boats and 4,441 miscellaneous boats.

Table R/T 31. Leading metropolitan markets for outboard motors in 1978 and 1979
 (Boating Industry, The Boating Business 1979).

City	Estimated unit sales		Estimated motors owned 31 Dec. 1979
	1978	1979	
Minneapolis-St. Paul, MN	14,300	10,300	224,000
Chicago, IL	8,500	6,700	171,000
Detroit, MI	7,700	6,400	139,000
Nassau, Suffolk, NY	8,800	6,200	173,000
Dallas, Fort Worth, TX	6,000	5,800	127,000
Houston, TX	6,100	5,800	131,000
Seattle, Everett, WA	5,400	5,300	92,000
Tampa, St. Petersburg, FL	5,500	5,200	108,000
Milwaukee, WI	6,400	4,900	131,000
Los Angeles, Long Beach, CA	3,800	4,100	89,000
Philadelphia, PA	4,000	3,900	72,000
New Orleans, LA	4,500	3,900	88,000
Miami, FL	4,500	3,300	84,000
Baltimore, MD	4,000	3,100	76,000
New York, NY	3,200	3,100	75,000
St. Louis, MO	2,400	2,900	69,000
Atlanta, GA	3,600	2,800	53,000
Pittsburg, PA	1,900	2,800	37,000
San Francisco, Oakland, CA	3,300	2,600	64,000
Boston, MA	3,100	2,600	80,000
Kansas, City, MO	2,600	2,600	52,000
District of Columbia	3,300	2,500	55,000
Oklahoma City, OK	2,700	2,500	38,000
Phoenix, AZ	2,400	2,500	42,000
Portland, OR	2,300	2,500	47,000
Jacksonville, FL	3,300	2,400	53,000
Orlando, FL	2,500	2,400	45,000
Fort Myers, FL	2,200	2,200	33,000
Tulsa, OK	2,500	2,100	44,000
W. Palm Beach, Boca Raton, FL	1,600	2,000	29,000
Duluth, Superior, MN	2,800	1,900	48,000
Indianapolis, IN	1,900	1,900	41,000
Charleston, SC	2,300	1,800	37,000

Continued

Table R/T 31. Concluded.

City	Estimated unit sales		Estimated motors owned 31 Dec. 1979
	1978	1979	
Ft. Lauderdale-Hollywood, FL	2,100	1,800	45,000
Memphis, TN	2,300	1,700	49,000
Knoxville, TN	1,900	1,700	29,000
San Antonio, TX	1,800	1,700	29,000
Cleveland, OH	2,300	1,600	42,000
Mobile, AL	2,300	1,600	33,000
Birmingham, AL	1,800	1,500	41,000
Baton Rouge, LA	2,700	1,400	44,000
Shreveport, LA	2,100	1,400	41,000
Buffalo, NY	2,000	1,400	39,000
Flint, MI	1,600	1,400	32,000
Norfolk, Virginia Beach, VA			
Portsmouth, VA	2,000	1,300	31,000
Little Rock, AR	1,800	1,300	34,000
Louisville, KY	1,800	1,300	31,000
Grand Rapids, MI	1,700	1,200	28,000
Lake Charles, LA	1,700	1,000	19,000
Pensacola, FL	2,400	1,000	31,000

Table R/T 32. Hunting and fishing licenses issued in FY 1954-55 (Florida Game and Fresh Water Fish Commission 1980a, 1980b).

County	Resident statewide fishing	Non-resident statewide fishing	14-day statewide fishing	Non-resident county hunting	Resident county hunting
Bay	5,369	47	507	169	408
Escambia	7,198	30		1,398	3,054
Franklin	878	133			477
Gulf	5,878	568		3,926	755
Okaloosa	2,632	75		219	2,557
Santa Rosa	1,292	21		106	1,679
Walton	1,685	331		699	1,562
Region	24,932	6,205	7,024		10,492
Florida	N.D.	N.D.	N.D.		N.D.

Continued

Table R/T 32. Concluded.

County	Resident statewide hunting	Non-resident statewide hunting	Non-resident 10-day hunting
Bay	2,127	3	21
Escambia	3,111	4	10
Franklin	195	0	34
Gulf	478	9	40
Okaloosa	1,219	20	75
Santa Rosa	539	1	11
Walton	397	27	22
Region	8,066	64	213
Florida	N.D.	N.D.	N.D.

Table R/T 33. Hunting and fishing licenses issued in FY 1959-60 (Florida and Game and Fresh Water Fish Commission 1980a, 1980b).

County	Resident statewide fishing	Non-resident statewide fishing	14-day statewide fishing	Non-resident county hunting	Resident county hunting
Bay	7,297	26	49	519	
Escambia	8,663	9	32	3,629	
Franklin	778	25	25	448	
Gulf	5,347	127	136	638	
Okaloosa	3,783	13	45	2,438	
Santa Rosa	2,658	3	36	2,100	
Walton	2,375	369	26	1,680	
Region	30,901	572	349	11,452	
Florida	N.D.	N.D.	N.D.	N.D.	

Continued

Table R/T 33. Concluded.

County	Resident statewide hunting	Non-resident statewide hunting	Non-resident 10-day hunting
Bay	2,661	5	17
Escambia	3,993	3	17
Franklin	222	1	31
Gulf	719	3	29
Okaloosa	1,572	6	36
Santa Rosa	861	4	10
Walton	845	25	30
Region	10,873	47	170
Florida	N.D.	N.D.	N.D.

Table R/T 34. Hunting and fishing licenses issued in FY 1964-65 (Florida Game and Fresh Water Fish Commission 1980a, 1980b).

County	Resident statewide fishing	Non-resident statewide fishing	Non-resident 14-day statewide fishing	5-day statewide fishing
Bay	7,414	73	98	951
Escambia	9,107	70	38	222
Franklin	659	59	12	1,388
Gulf	4,540	237	127	2,265
Okaloosa	5,200	27	46	208
Santa Rosa	4,086	45	28	286
Walton	3,246	1,933	133	2,806
Region	34,252	2,444	482	8,126
Florida	N.D.	N.D.	N.D.	N.D.

Continued

Table R/T 34. Concluded.

County	Resident county hunting	Resident statewide hunting	Non-resident statewide hunting	Non-resident 10-day hunting
Bay	650	3,398	7	20
Escambia	4,118	5,706	16	23
Franklin	461	377	1	29
Gulf	563	911	1	11
Okaloosa	2,969	2,370	12	34
Santa Rosa	2,790	1,326	22	23
Walton	1,969	1,259	13	36
Region	13,520	15,347	72	176
Florida	N.D.	N.D.	N.D.	N.D.

Table R/T 35. Hunting and fishing licenses issued in FY 1969-70 (Florida Game and Fresh Water Fish Commission 1980a, 1980b).

County	Resident statewide fishing	Non-resident statewide fishing	14-day statewide fishing	Non-resident statewide fishing	5-day statewide fishing
Bay	7,414	73	98	951	
Escambia	9,107	70	38	222	
Franklin	659	59	12	1,388	
Gulf	4,540	237	127	2,265	
Okaloosa	5,200	27	46	208	
Santa Rosa	4,086	45	28	286	
Walton	3,246	1,933	133	2,806	
Region	34,252	2,444	482	8,126	
Florida	N.D.	N.D.	N.D.	N.D.	

Continued

Table R/T 35 . Concluded.

County	Private hunting preserve	Resident county hunting	Resident statewide hunting	Non-resident statewide hunting	Non-resident 10-day hunting
Bay	5	588	4,769	11	74
Escambia	0	4,345	6,218	29	38
Franklin	0	359	405	3	18
Gulf	0	497	962	3	31
Okaloosa	0	2,510	3,656	19	43
Santa Rosa	0	2,346	1,605	10	17
Walton	0	1,657	935	10	15
Region	5	12,302	18,550	85	236
Florida	N.D.	N.D.	N.D.	N.D.	N.D.

Table R/T 36. Hunting and fishing licenses issued in FY 1974-75 (Florida Game and Fresh Water Fish Commission 1980a, 1980b).

County	Resident statewide fishing	Non-resident statewide fishing	14-day statewide fishing	Non-resident statewide fishing	5-day statewide fishing
Bay	13,260	195		154	1,381
Escambia	12,928	376		93	442
Franklin	1,291	123		44	1,016
Gulf	4,918	583		152	2,470
Okaloosa	8,515	102		84	382
Santa Rosa	6,999	193		108	338
Walton	3,952	1,257		165	1,682
Region	51,863	2,829		800	7,711
Florida	N.D.	N.D.		N.D.	N.D.

Continued

Table R/T 36. Concluded.

County	Private hunting preserve	Resident county hunting	Resident statewide hunting	Non-resident statewide hunting	Non-resident 10-day hunting
Bay	1	241	5,532	15	76
Escambia	0	3,819	6,751	55	61
Franklin	0	274	404	4	65
Gulf	0	320	958	5	39
Okaloosa	1	1,851	4,363	17	50
Santa Rosa	5	1,935	2,036	13	16
Walton	0	1,270	1,010	35	30
Region	7	9,710	21,054	144	337
Florida	N.D.	N.D.	N.D.	N.D.	N.D.

Table R/T 37. Hunting and fishing licenses issued in FY 1979-80 (Florida Game and Fresh Water Fish Commission 1980a, 1980b)

County	Resident statewide fishing	Non-resident statewide fishing	12-month statewide fishing	Resident 14-day statewide fishing	Non-resident 14-day statewide fishing
Bay	8,912	232		990	82
Escambia	5,742	457		4,792	77
Franklin	484	85		180	8
Gulf	2,398	791		701	65
Okaloosa	4,298	140		3,212	43
Santa Rosa	2,539	122		1,699	37
Walton	2,113	1,506		937	103
Region	26,486	3,333		12,511	415
Florida	N.D.	N.D.		N.D.	N.D.

Continued

Table R/T 37 Continued.

County	Non-resident 5-day statewide fishing	Resident hunting and fishing	Private hunting preserve	Resident county hunting
Bay	1,030	2,066	0	358
Escambia	398	1,811	0	2,981
Franklin	633	252	0	276
Gulf	1,325	476	0	178
Okaloosa	388	1,844	1	1,578
Santa Rosa	187	997	7	1,533
Walton	1,492	640	0	1,045
Region	5,453	8,086	8	7,949
Florida	N.D.	N.D.	N.D.	N.D.

Continued

Table R/T 37. Concluded.

County	Resident Statewide hunting	Non-resident Statewide hunting	Non-resident 10-day hunting	Resident county trapping
Bay	4,321	5	529	19
Escambia	5,926	45	340	25
Franklin	476	3	92	13
Gulf	852	1	61	43
Okaloosa	3,991	7	258	26
Santa Rosa	2,348	10	118	29
Walton	1,054	11	112	43
Region	18,968	82	1,510	198
Florida	N.D.	N.D.	N.D.	N.D.

MINERAL AND OIL PRODUCTION (MP)

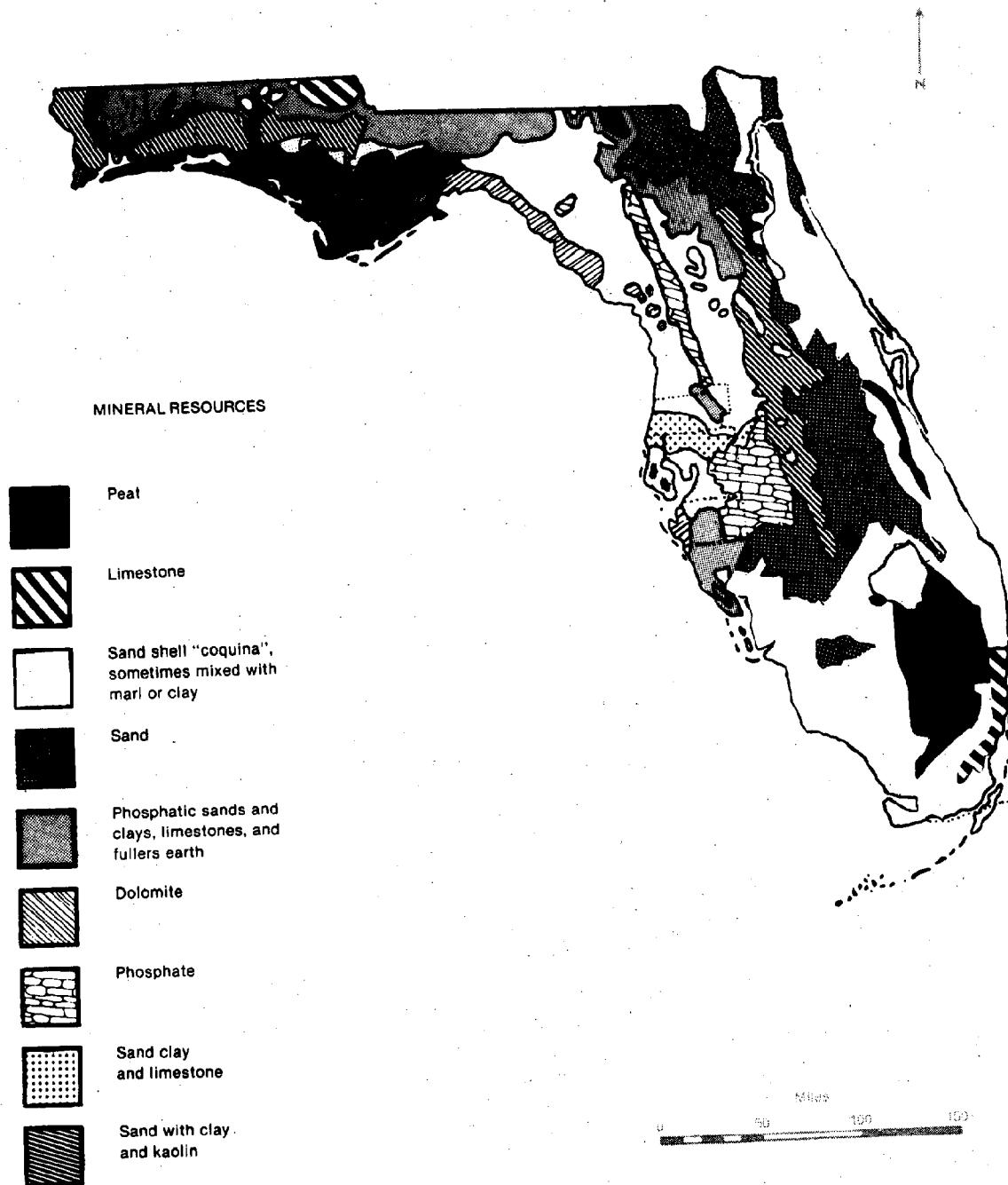


Figure 14. Florida mineral resources (Wood and Fernald 1974).

Table MP 1. Value (\$) of all minerals^a produced, in order of value, for 1955, 1960, 1965, 1970, 1975 and 1979 (U.S. Department of the Interior, Bureau of Mines 1958, 1961, 1967, 1972, 1978b, 1981).

County	Year	Mineral	(\$)
Bay	1955	Sand	26,139 ^b
	1960	Sand and gravel	D
	1965	Sand and gravel	D
	1970	Sand and gravel	D
	1975	Sand and gravel	474,000
	1979	Sand and gravel	663,000
Escambia	1955	Sand, gravel and clay	N.D.
	1960	Sand and gravel	356,812
	1965	Sand, gravel and clay	450,000
	1970	Sand, gravel and clay	D
	1975	Sand, gravel and clay	680,000
	1979	NRP	N.A.
Franklin	1955	NRP	N.A.
	1960	NRP	N.A.
	1965	Sand and gravel	D
	1970	Sand and gravel	D
	1975	NRP	N.A.
	1979	NRP	N.A.
Gulf	1955	NRP	N.A.
	1960	Magnesium compounds, lime	D
	1965	Magnesium compounds, lime	D
	1970	Magnesium compounds, lime	D
	1975	Magnesium compounds, lime	D
	1979	Magnesium compounds, lime	D
Okaloosa	1955	NRP	N.A.
	1960	NRP	N.A.
	1965	NRP	N.A.
	1970	Sand and gravel	D
	1975	Sand and gravel	D
	1979	Sand and gravel	33,000
Santa Rosa	1955	NRP	N.A.
	1960	NRP	N.A.
	1965	NRP	N.A.
	1970	Petroleum	D
	1975	Natural gas, sand and gravel	D
	1979	Sand and gravel	D
Walton	1955	NRP	N.A.
	1960	Oystershell	D
	1965	Oystershell, sand and gravel	D
	1970	Oystershell, sand and gravel	D
	1975	Sand and gravel	269
	1979	Sand and gravel	D

Continued

Table MP 1. Concluded.

County	Year	Mineral	(\\$)
Florida	1955	All minerals	108,957,000
	1960	All minerals	176,920,000
	1965	All minerals	249,320,000
	1970	All minerals	300,042,000
	1975	All minerals	1,775,500,000
	1979	All minerals	1,098,772,000

^a Excludes peat, petroleum and natural gas.

^b Figures withheld to avoid disclosure of individual establishments.

^c No production report.

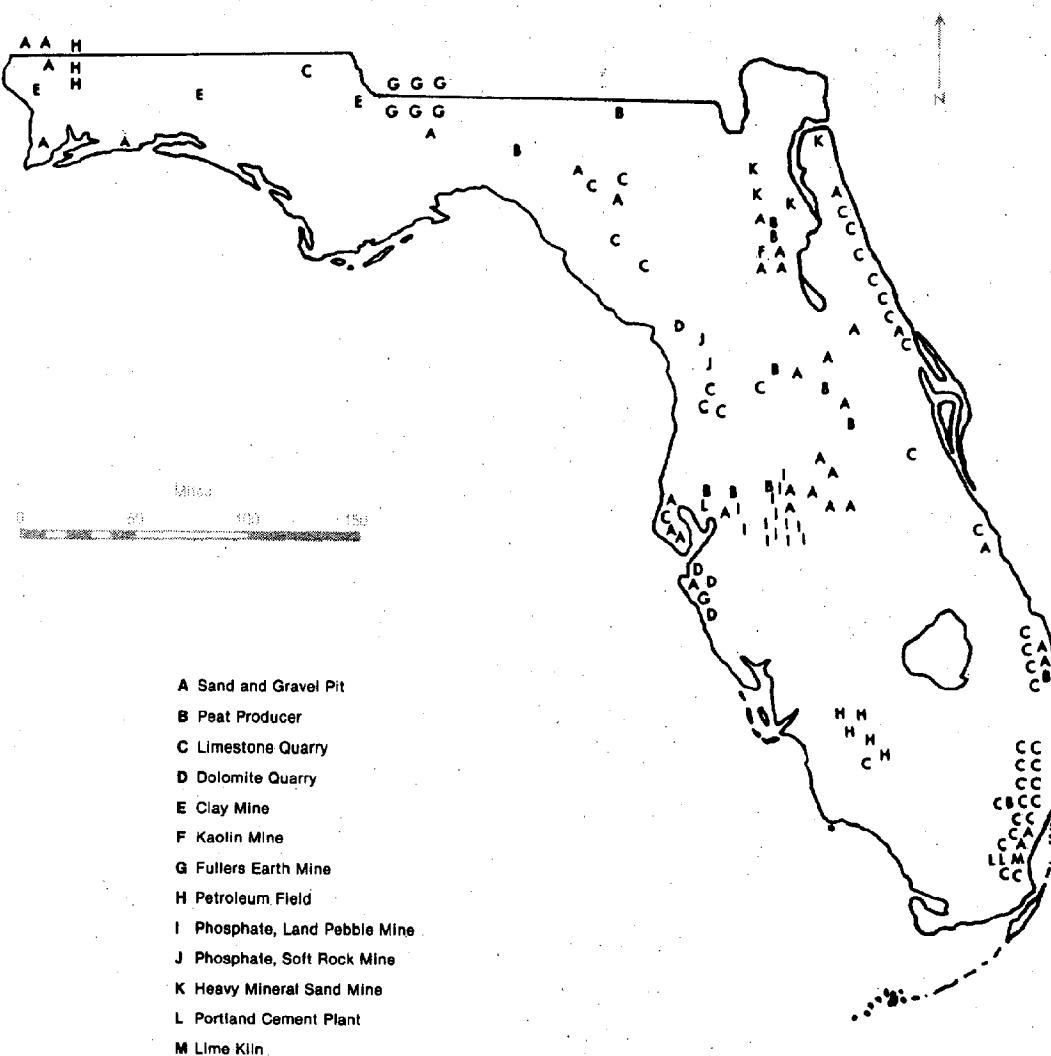


Figure 15. Florida mineral industries (Wood and Fernald 1974).

Table MP 2. Non-fuel mineral production and value (\$) in Florida for 1955, 1960, 1965, 1970, 1975 and 1979 (U.S. Department of the Interior, Bureau of Mines 1958, 1961, 1967, 1972, 1978b, 1981).

Mineral	Year	Quantity produced ^a	(\$)
Sand and gravel	1955	5,065,503	4,349,148
	1960	6,757,000	5,559,000
	1965	7,298,000	6,377,000
	1970	12,482,000	12,254,000
	1975	13,237,000	20,199,000
	1979	21,708,000 ^b	39,520,000
Phosphate rock	1955	8,747,282 ^b	53,640,301
	1960	12,321,000	82,530,000
	1965	19,253,000	141,258,000
	1970	N.D.	N.D.
	1975	N.D.	N.D.
	1979	N.D.	N.D.
Stone (including limestone)	1955	17,027,967	22,966,008
	1960	27,629,000	37,419,000
	1965	35,730,000	41,148,000
	1970	43,089,000 ^c	61,302,000
	1975	39,071,000 ^d	73,372,000
	1979	0 ^e	0
Clays	1955	412,766	4,815,855
	1960	252,000	6,357,000
	1965	651,000	9,752,000
	1970	872,000	12,661,000
	1975	712,000	17,063,000
	1979	681,000	31,308,000 ^f
Peat	1955	61,098	231,829
	1960	39,275	162,000
	1965	19,253	109,000
	1970	46,000 ^g	304,000
	1975	82,000 ^g	1,037,000
	1979	153,000	2,190,000

^a Short tons except where otherwise specified.

^b Long tons.

^c Excludes dimension limestone.

^d Excludes dimension stone and shell.

^e Figures withheld to avoid disclosure of individual establishments.

^f Excludes value of kaolin.

^g Source document gave two figures: page 191 (82,000) page 204 (100,895). The value from both pages is shown above.

Table MP 3. Marketable production of phosphate rock (\$) in Florida for 1955, 1960 and 1965^a (U.S. Department of the Interior, Bureau of Mines 1958, 1961, 1967, 1972, 1978b, 1981).

Year	Hard rock		Soft rock	
	Long tons	(\$)	Long tons	(\$)
1955	91,200	733,800	69,788	452,301
1960	77,000	670,000	47,000	384,000
1965	69,900	693,000	29,216	226,844

Year	Land pebble		Total	
	Long tons	(\$)	Long tons	(\$)
1955	8,586,294	52,454,200	8,747,282	53,640,301
1960	12,197,000	81,476,000	12,321,000	82,530,000
1965	19,153,835	140,337,900	19,252,931	141,257,744

^a No data after 1965.

Table MP 4. Phosphate reserves and resources for the world, the United States and central Florida (million metric tons) (U.S. Department of the Interior, Bureau of Mines 1978b).

Location	Measured reserves	Identified sub-economic resources	Total resources
World ^a	15,207	49,188	74,395
United States ^a	2,902	1,506	4,408
Central Florida ^a	907	635	1,542
Polk County ^b	403	95	498
Hillsborough County ^b	181	14	195
Hardee County ^b	176	299	475
Manatee County ^b	164	150	314
DeSoto County ^b	16	64	80

^a 1976 figures.

^b 1973 figures.

Table MP 5. Active sand producers in Northwest Florida (Florida Department of Environmental Regulation, Bureau of Water Management 1980a).

County and producer

Bay County

Calloway Pit
Calloway Sand Co.

Hutchinson Pit
Florida Asphalt Paving Co.

Register Pit
Florida Asphalt Paving Co.

Gulf Asphalt Pit
Gulf Asphalt Corp.

Lynn Haven Mine
Pitts Sand Co.

Escambia County

Campbell Sand and Gravel

Pensacola Mine
Clark Sand Co. (2 mines)

Escambia Pit
Ed Chadbourne, Inc.

Okaloosa County

Dorcas Pit
Morrell Sand Co.

Walton County

Adams Mine
Adams Sand Co.

Table MP 6. Florida's Non-fuel mineral supply (\$) in 1978 (U.S. Department of the Interior, Bureau of Mines 1978c)

Commodity	% of U.S. output	Rank in nation	Reserves
Fuller's earth	37	1	moderate
Phosphate rock ^a	86	1	moderate
Rare-earth concentrates	D ^b	2	small
Staurolite	100	1	small
Stone, crushed	5	4	large
Titanium minerals	D	1	moderate
Zircon	100	1	small

^a Includes North Carolina.

^b Data withheld to avoid disclosure of individual establishments.

Table MP 7. Crude petroleum and natural gas production and value in dollars (\$) for Florida for 1955, 1960, 1965, 1970, 1975 and 1979 (U.S. Department of the Interior, Bureau of Mines 1958, 1961, 1967, 1972, 1978b, 1981).

Year	Crude petroleum		Natural gas	
	Quantity ^a	(\\$)	Quantity ^b	(\\$)
1955	495	D ^c	36	4,000
1960	368	D	30	5,000
1965	1,464	D	107	14,000
1970	2,999	D	N.D.	N.D.
1975	41,877	490,258,000	44,383	43,185,000
1979	N.D.	N.D.	N.D.	N.D.

^a Thousand barrels.

^b Million ft³.

^c Figures withheld to avoid disclosure of individual establishments.

Table MP 8. Natural gas production (1000 ft³) by field for 1970^a, 1975 and 1979 (Florida Department of Administration, State Energy Office 1978; Curry ca. 1980).

Field and county	1970	Cumulative	1975	Cumulative
Blackjack Creek ^b	0	0	4,113,862	4,121,865
Santa Rosa				
Jay ^c	9,828	9,828	39,343,578	87,003,857
Santa Rosa				
Escambia				
Mt. Carmel ^d	0	0	550,238	571,439
Santa Rosa				
Sweetwater Creek ^e	0	0	0	0
Region	9,828	9,828	44,007,678	91,697,161
Florida	435,869	2,105,511	44,387,541	135,515,010

Field and county	1979	Cumulative
Blackjack Creek	4,999,540	24,333,621
Santa Rosa		
Jay ^c	48,169,488	304,659,074
Santa Rosa		
Escambia		
Mt. Carmel	611,180	3,375,619
Santa Rosa		
Sweetwater Creek	5,384	11,920
Region	53,785,592	332,380,234
Florida	54,162,641	337,881,773

^a Production in these fields did not begin prior to 1970.

^b Production began in 1972.

^c Production began in 1970.

^d Production began in 1971.

^e Production began in 1977.

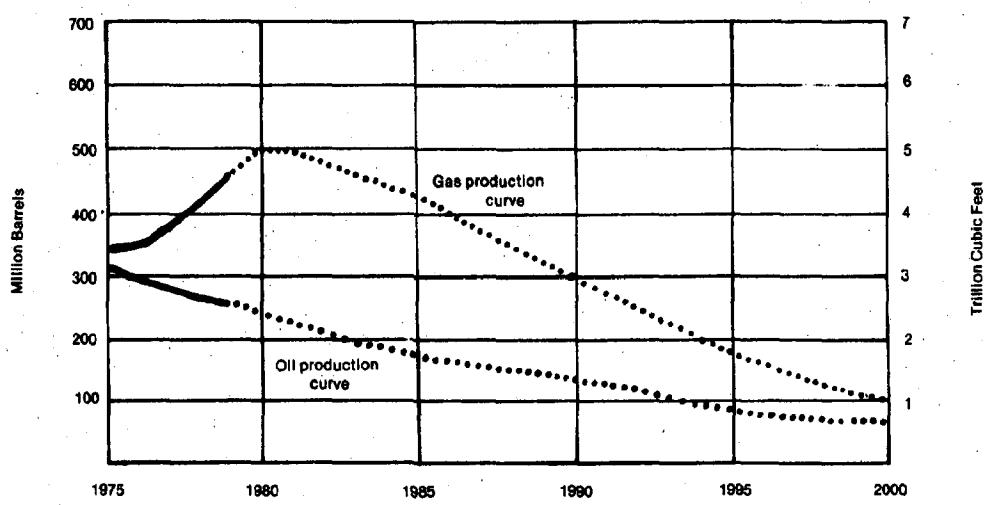


Figure 16. Oil and gas production curves for the Gulf of Mexico to the year 2000 (Rogers et al. 1979).

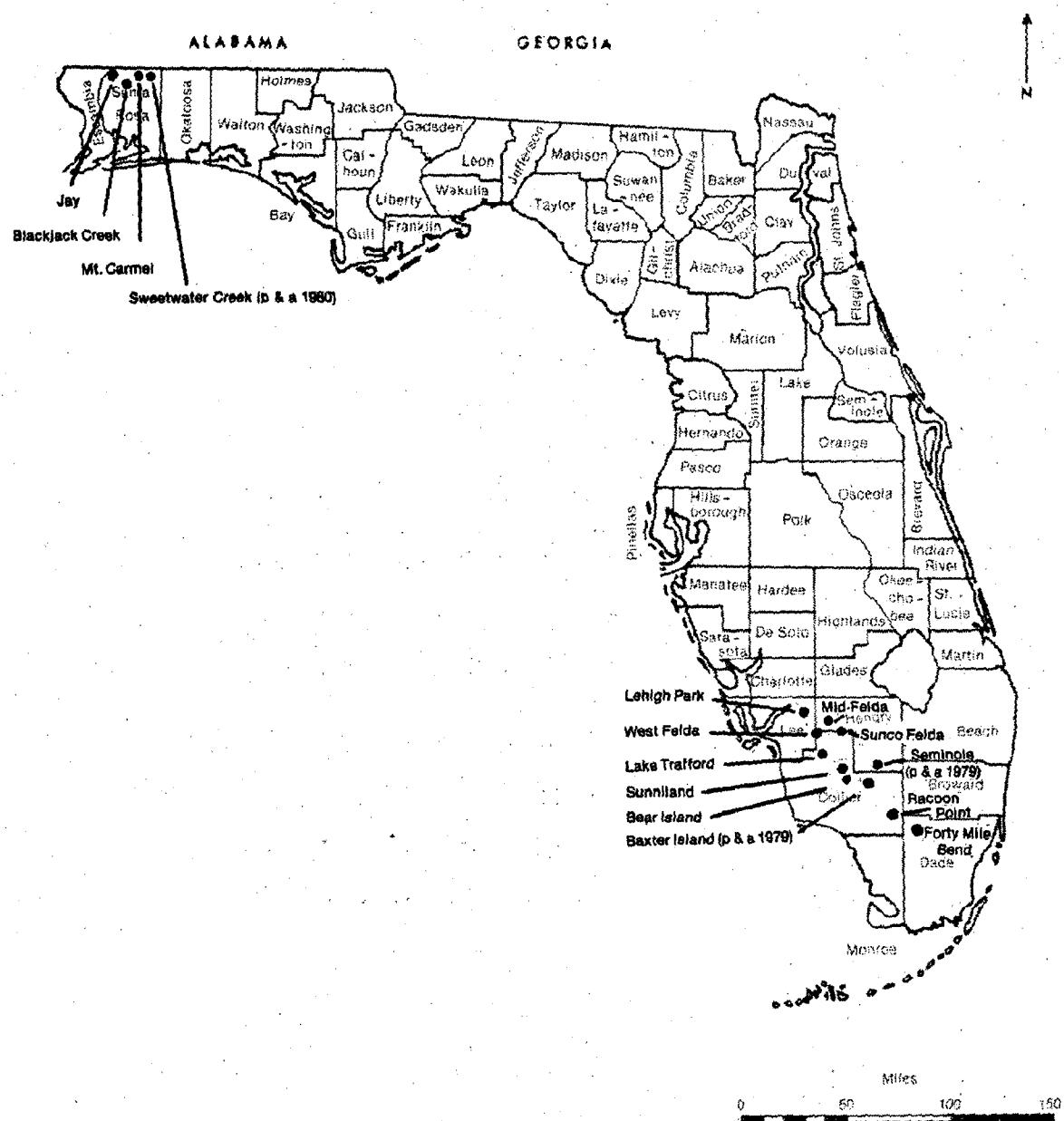


Figure 17. Producing and plugged oil and gas fields in Florida (Curry and Tootle 1980).

Table MP 9. Crude oil production (bb1) by field for 1970^a, 1975 and 1979
 (Florida Department of Administration, State Energy Office 1978; Curry ca.
 1980).

Field and county	1970	Cumulative	1975	Cumulative
Blackjack Creek ^b Santa Rosa	0	0	4,596,936	4,632,590
Jay ^c Santa Rosa	6,819	6,819	31,693,227	103,509,989
Escambia ^d Mt. Carmel Santa Rosa	0	0	565,160	1,146,882
Sweetwater Creek ^e	0	0	0	0
Region	6,819	6,819	36,855,323	109,289,461
Florida	2,992,335	19,400,672	41,680,509	151,972,650

Field and county	1979	Cumulative
Blackjack Creek Santa Rosa	5,761,034	27,378,548
Jay Santa Rosa	38,738,779	247,123,062
Escambia Mt. Carmel Santa Rosa	609,261	3,422,879
Sweetwater Creek	3,283	5,329
Region	45,112,357	277,929,818
Florida	49,811,599	340,423,804

^a Production in these fields did not begin prior to 1970.

^b Production began in 1972.

^c Production began in 1970.

^d Production began in 1971.

^e Production began in 1977.

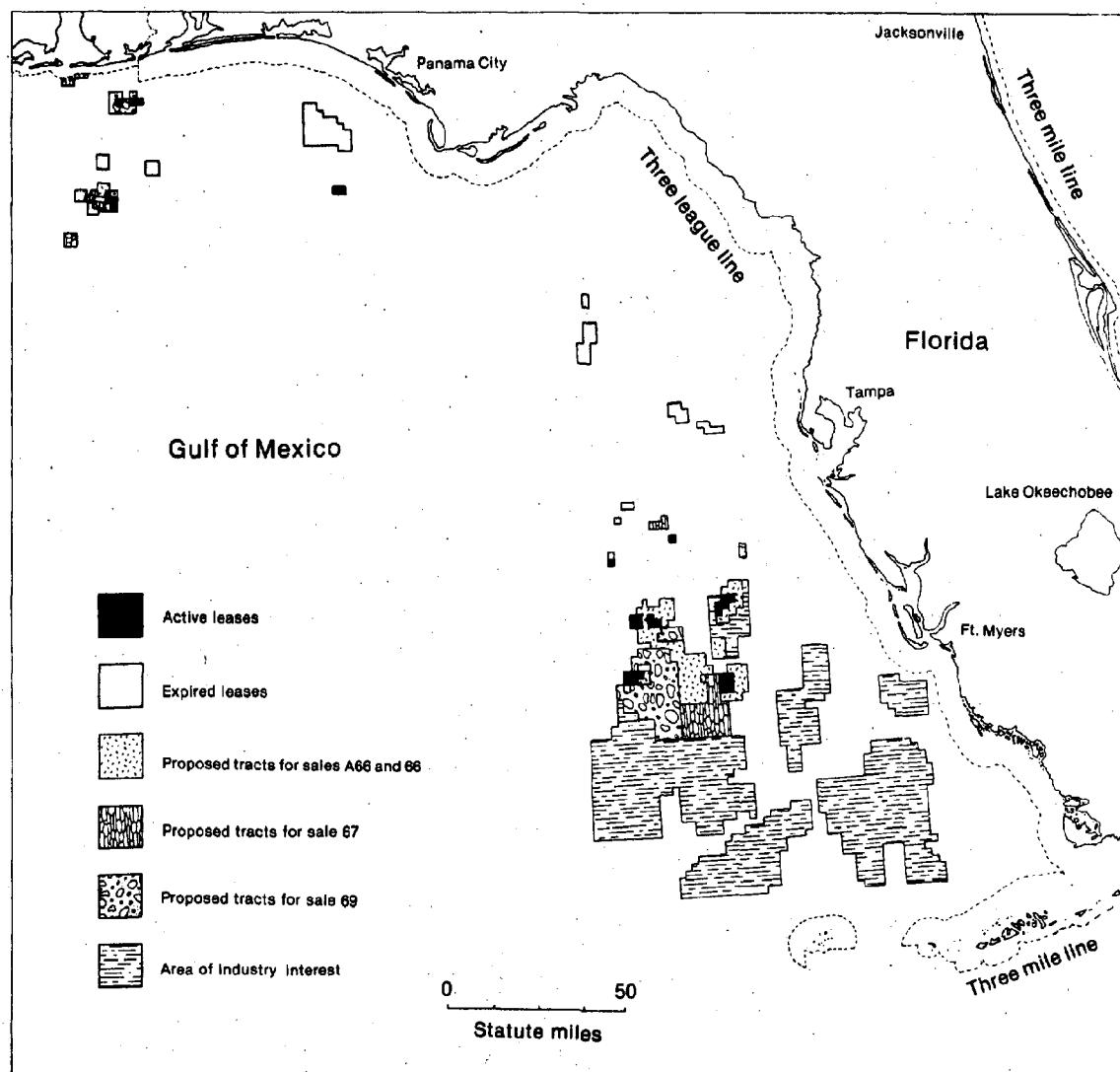


Figure 18. Status of OCS lease areas off the Florida Gulf Coast (U.S. Department of the Interior, Bureau of Land Management 1980; Southwest Florida Regional Planning Council 1981).

Table MP 10. Oil and gas drilling permits since 1973 (Florida Department of Natural Resources, Division of Resource Management 1980).

County	Permit number	API ^a number approved	Date approved	Operator
Bay	1006	09-005-20003	03-04-80	Houston Oil and Mineral Corp. Southwest Forest Industries Unit 13-3 Well #1
	1010	09-055-20004	04-15-80	Houston Oil and Mineral Corp. Southwest Forest Industries Unit 13-3 Well #1
Escambia	694	09-033-20024	09-04-73	Petrol Co. #1
	707	09-033-20025	11-06-73	Stacey Unit 14-3
	573A	09-033-20016-01	08-29-72	LL&E McDavid Lands 3-2 #1
	573B	09-033-20016-02	02-17-75	Exxon McDavid Lands 35-2A (Sidetracked hole)
	883	09-033-20028	03-22-77	Exxon McDavid Lands #7-5
	884	09-033-20029	03-22-77	Exxon McDavid Lands #31-2
	918	09-033-20030	10-18-77	Exxon McDavid Lands #1-2
	943	09-033-20031	05-02-78	Exxon Scott Paper Co. #1-2
	945	09-033-20032	05-16-78	Exxon Epstein McMillan #35-4
	946	09-033-20033	05-16-78	Exxon W.H. Crapps #36-3
	948	09-033-20034	07-05-78	Exxon McDavid Lands #30-2B
	708	09-033-20026	11-06-73	L.L.E. James Nicholson #10-1 Unit #1
	790	09-033-20035	05-20-75	L.L.E. Vulcan Materials et al. Unit 22-2, Well #1
	977	09-033-20036	04-17-79	Exxon McDavid Lands et al. Well # 31-3

Continued

Table MP 10. Continued.

County	Permit number	API number approved	Date approved	Operator
Okaloosa	1027	09-033-20037	10-21-80	Chevron U.S.A. La Floresta Unit 2-1, Well #1
	731	09-091-20003	03-19-74	Cabot Corp. U.S.A. State Forest 1-9
	807	09-091-20004	10-21-75	Cleary Petroleum, Coleman Kelly Trust #1
	970	09-091-20005	09-18-79	Peninsula Resources Corp. Mattie Kelly Sims et al. Trustees #1
Santa Rosa	729	09-113-20135	03-19-74	Exxon D.M. Kirkland et al. #11
	728	09-113-20136	03-19-74	Exxon W.W. Foskett # 25-N
	739	09-113-20137	05-21-74	Amerada Hess MS-FL, J.E. Golden # 4-1 # 1
	750	09-113-20138	09-04-74	Callon Hendricks-Helms # 36-3 # 1
	763	09-113-20139	11-26-74	Belco Petroleum Corp. Obie E. Willis #1
	771	09-113-20140	02-04-75	Watson Oil Corp. Gordon Wells et al. Well #1
	773	09-113-20141	05-20-75	Amax Petroleum Corp. #1, E.H. Estes Unit 26-1
	791	09-113-20142	05-20-75	Exxon Jay, Lec Unit Salt Water Disposal System 5 Well #1
	796	09-113-20143	09-09-75	Texas Gas Exploration Co.
	805	09-113-20144	09-23-75	R.J. Pitts 6-4 #1
				Pruet and Hughes Co. #1
				Floyd Unit 6-2

Continued

Table MP 10. Continued.

County	Permit number	API number approved	Date approved	Operator
Santa Rosa	808	09-113-20145	12-02-75	Exxon Jay, LEC Unit, Saltwater Disposal System #1, Well #2 Marion Corp., W.H. Hendrick et al., Unit 3-1, Well #1
	811	09-113-20146	12-16-75	Exxon, St. Regis Paper Co.
	815	09-113-20147	03-23-76	15-W (water injection)
	855	09-113-20148	09-22-76	Tesoro, L.L.& E., Dalco, St. Regis Paper Co. #1, 9-3
	860	09-113-20149	11-04-76	Tesoro, L.L.& E. & Dalco #1, #16-2
	861	09-113-20150	11-04-76	Tesoro, L.L.& E. & Dalco #1, #8-4
	863	09-113-20151	11-16-76	Dallas Exploration, McRae et al., #36-2
	881	09-113-20152	01-06-77	Houston Oil, W.M. Stokes #15-2
	882	09-113-20154	03-22-77	Exxon Douglas Polk #41-1
	886	09-113-20153	04-07-77	Exxon St. Regis Paper #13-W
	889	09-113-20155	05-17-77	Houston H. Hanna #9-3
	890	09-113-20156	05-17-77	Houston #1 U.S.A. State Forest #15-3
	891	09-113-20157	06-07-77	Houston U.S.A. State Forest #14-3
	910	09-113-20158	07-19-77	Exxon C. Higdon #19-5
	911	09-113-20159	08-16-77	Pennzoil U.S.A. State Forest #5-2
	912	09-113-20160	09-06-77	Pennzoil Cooley Unit #25-1
	991	09-113-20184	11-06-79	Exxon McDowell Lands et al., Well #38-2
	992	09-113-20185	11-06-79	Exxon St. Regis Paper Co. Well #14-3
	995	09-113-20186	01-08-80	Exxon W. R. Polk, Well #18-4
	1002	09-113-20187	02-05-80	Exxon R.D. Scott, Well #41-5
	1004	09-113-20188	03-04-80	Exxon Martha Murphy Well #10-6

Continued

Table MP 10. Concluded.

County	Permit number	API number approved	Date approved	Operator
Santa Rosa	1005 1013 1021	09-113-20189 09-113-20190 09-113-20191	03-04-80 06-03-80 09-26-80	Exxon A.E. Kelly, Well #7-7 Exxon D.R. Simmons #19-6 Exxon St. Regis Paper Co. Well #9-5
Walton County	793 793A	09-131-20006 09-131-20007	07-15-75	Texas Gas Exploration Corp. D.E. Wilkerson Well #1 Texas Gas Exploration Corp. D.E. Wilkerson Well #1-A
	874 932	09-131-20008 09-131-20009	12-07-76 01-17-78	Milton J. Bernos, Olen L. Miller #1 Marion Corp. Sealy Heirs #1

^a American Petroleum Institute.

Table MP 11. OCS oil and gas lease sales in dollars (\$) in Florida for selected dates (Exxon Company U.S.A. 1980).

Date of sale	Sale number	Offered		Leased		Total bonus (\$)
		Number of tracts	Acres	Number of tracts	Acres	
02-26-59	5	80	458,000	23	132,480	1,711,872
12-20-73	32	85	489,600	62	357,120	1,100,399,131
02-08-76	41	60	350,292	4	23,040	4,040,000
10-31-78	65	71	408,334	28	161,280	43,823,730

Date	Total first year rental (\$)	Average bid per acre (\$)	Highest bid per acre (\$)
05-26-59	397,440	13 .00	16 .00
12-20-73	1,071,360	3,081 .00	36,805 .00
02-08-76	69,120	175 .00	280 .00
10-31-78	483,840	272 .00	1,422 .00

Table MP 12. Crude oil and natural gas reserves and production in Florida for 1955, 1960, 1965, 1970, 1975, 1977 and 1979 (Florida Department of Administration, State Energy Office 1978).

Year	Oil		Gas	
	Estimated recoverable reserves (bbl)	Cumulative production (bbl)	Estimated recoverable reserves (Mcf)	Cumulative production (Mcf)
1955	14,525,219	4,350,228	1,452,656	443,256
1960	12,384,111	6,491,336	1,238,556	647,356
1965	21,347,433	9,828,014	1,902,936	966,976
1970	382,468,433	19,400,672	405,407,461	2,105,511
1975	302,461,451	151,972,650	312,796,384	135,515,010
1977	211,687,025	243,075,980	216,208,122	232,124,782
1979	N.D.	340,423,804	N.D.	337,881,773

Table MP 13. Estimated crude oil and natural gas reserves in 1972-77 (Florida Department of Administration, State Energy Office 1978).

Field and county	Year discovered	Recovery (%)	Crude oil reserves	
			Original in place (bb1)	Original recoverable (bb1)
Blackjack Creek Santa Rosa	1972	40	100,500,000	40,200,000
Jay Santa Rosa Escambia	1970	42	763,129,638	320,514,448
Mt. Carmel Santa Rosa	1971	20	17,500,000	3,500,000
Sweetwater Creek Santa Rosa	1977	10	624,116	62,412
Region		N.D.	881,753,754	364,276,860
Florida		41	1,120,525,179	454,763,005

Field and county	Natural gas reserves	
	Original in place (Mcf)	Original recoverable (Mcf)
Blackjack Creek Santa Rosa	91,455,000	36,582,000
Jay Santa Rosa Escambia	953,912,048	400,643,060
Mt. Carmel Santa Rosa	17,500,000	3,500,000
Sweetwater Creek Santa Rosa	124,823	12,482
Region	1,062,991,871	440,737,542
Florida	1,082,608,605	448,332,904

Table MP 14. Gulf of Mexico OCS oil and gas resource and reserve estimates in 1979 (U.S. Department of the Interior, U.S. Geological Survey ca. 1981).

Undiscovered recoverable estimates (mean)	<u>Oil</u> (billion bbl)	<u>Gas</u> (trillion ft ³)
Western Gulf of Mexico (Main pass area and W.) 0-2,500 m water depth	5.2	69.0
Eastern Gulf of Mexico (East of main pass area) 0-2,500 m water depth	1.3	2.9
Reserves	2.8	37.2

Table MP 15. Dollar value of mineral production as a percent of the State total for 1965, 1975 and 1976 (U.S. Department of the Interior, Bureau of Mines 1965, 1979).

	1965	1975	1976
Florida	249,320,000	1,095,042,000	1,652,232,000
Northwest Florida region	357,000	1,802,000	537,332,000
Region value as % of State	.14	.16	.32

Table MP 16. Value (\$) of mineral production for 1960 and 1975 (U.S. Department of the Interior, Bureau of Mines 1960, 1965, 1970, 1975).

County	1960	1975
Bay	D ^a	474,000
Escambia	356,812	759,000
Franklin	D	D
Gulf	D	D
Okaloosa	D	D
Santa Rosa	D	D
Walton	N.D.	269,000
Region	356,812	1,502,000

Table MP 17. Mineral production establishments and employment by county in 1972 (U.S. Department of Commerce 1973).

County	Number of establishments			Number of employees (range)
	Oil and Gas extraction	Non-metallic minerals	Total	
Bay	4	1	5	0-19
Escambia	14	2	16	0-99
Gulf	2	0	2	0-19
Okaloosa	2	2	4	0-19
Santa Rosa	26	0	26	0-99
Walton	4	0	4	0-19
Region	50	5	57	N.D.
Florida	N.D.	N.D.	277	N.D.

Table MP 18. Mississippi, Alabama and Florida (MAFLA) lease sales for 1959, 1973, 1976 and 1978 (U.S. Department of the Interior, U.S. Geological Survey ca. 1981).

MAFLA				
Lease sale	Date	Number of tracts offered	Number of tracts leased	Percentage leased
05 ^a	02/26/59	80 ^b	23	29
32	12/20/73	85 (147) ^c	62 (87)	67 (59)
41	02/18/76	60 (132)	4 (34)	7 (26)
65	10/28/78	71 (89)	28 (35)	39 (39)
Summary		296 (448)	117 (179)	40 (40)

MAFLA				
Lease sale	Date	Acres offered	Acres leased	Percentage leased
05	02/26/59	458,000 (817,297)	32,480 (485,396)	29
32	12/20/73	489,600 (687,603)	357,120 (161,285)	73 (59)
41	02/18/76	350,292 (511,709)	23,040 (201,294)	7 (23)
65	10/28/78	408,334	161,280	39 (39)
Summary		1,706,226 (2,474,609)	673,920 (980,455)	39 (40)

^a L.S. number 5 is not considered part of MAFLA, however, all leasing activity was adjacent to Florida.

^b Figures shown without parenthesis represent data for Florida only.

^c Figures shown in parenthesis represent data for all MAFLA.

Table MP 19. Factors affecting the number and locations of onshore support facilities (New England River Basins Commission 1976).

Location of oil and gas field
Size of oil and gas field
Topography of oil and gas field
Depth of water
Whether both oil and gas are found
Availability of coastal frontage (land)
Availability of additional (back-up) land
Proximity to existing refineries and processing plants
Proximity to diverse urban areas and markets
Public services and facilities (schools, hospitals)
Labor markets (areas without strong labor unions are preferred)
Public opinion
Availability of entertainment
Proximity to airport or landing strip

Table MP 20. Types and quantities of materials transported offshore for one-year periods (New England River Basins Commission 1976).

Type	Materials	Quantity
Fuel		10,000-15,000 bbl
Drilling mud		2,000-5,000 tons
Cement		1,000-3,000 tons
Fresh water		5,000,000-7,500,000 gal
Tubular goods		2,000-3,000 tons

Table MP 21. General requirements for locating service bases, and potential environmental and economic impacts (New England River Basins Commission 1976).

Item	Requirements/Pollutants/Economics
<u>Site Considerations</u>	
Land: Temporary base	2-6 ha (5-15 acres)
Permanent base	10-40 ha (25-100 acres)
Berthage	60-186 m (200-600 ft) water frontage 5-6 m (15-20 ft) depth (draft)
Transportation	Airport, heliport nearby Water, excellent vessel accessibility Rail, desirable Road, adequate accessibility
Economic	Cost of land Proximity to related industries
<u>Environmental Impacts</u>	
Air emission	Hydrocarbons Carbon monoxide Nitrogen oxides
Wastewater contaminants	Hydrocarbons Heavy metals
Solid wastes	Up to 6 tons per day during drilling hazardous, oil contaminated, etc.
Noise	Up to 85 dB on a 24 hour basis
<u>Economic Impacts</u>	
Labor	50-50 jobs/platform during drilling 20-30 jobs/platform during production
Wages	\$750,000-\$1,000,000/year
Capital investment	Temporary base-\$200,000-\$300,000 Permanent base-\$2 million-\$5 million

Table MP 22. General requirements for locating shore facilities associated with pipelines, and potential environmental and economic impacts (New England River Basins Commission 1976).

Item	Requirements/Pollutants/Economics
<u>Site Considerations</u>	
Land: Pipeline easement (on shore)	15-30 m (50-100 ft)
Pipecoating yard	20-68 ha (50-150 acres)
Pumping station (if required)	16 ha (40 acres)
Waterfront	15-30 m (50-100 ft) for landfall 232 m (750 ft) for pipe coating yard, depth at least 3 m (10 ft)
Water	11,350-56,775 liters (3,000-15,000)
<u>Environmental Impacts</u>	
Air emission	Hydrocarbons Sulfur oxides Nitrogen oxides Particulates Carbon monoxide
Wastewater contaminants	Alkaline substances Hydrocarbons Particulates Metal fragments
Solid wastes	Concrete Contaminated debris Packaging materials Metal scraps
Noise	Up to 100 dB on a 24 hour basis
<u>Economic Impacts</u>	
Labor	250-300 jobs/pipeline during construction 100-200 jobs at pipecoating yard during pipeline construction
Wages	\$5 million-\$6 million/year for pipeline construction \$1.5 million-\$3 million for pipecoating yard during construction
Capital investment	\$8 million-\$10 million for pipecoating yard

Table MP 23. General requirements for locating berthing facilities, and potential environmental and economic impacts (New England River Basins Commission 1976).

Item	Requirements/Pollutants/Economics
<u>Site Considerations</u>	
Land: Terminal	20-30 ha (50-75 acres)
Tank farm	8-30 ha (20-75 acres)
Berthage	Approximately 304 m (1000 ft) for pier
Water	Potable water Purging
<u>Environmental Impacts</u>	
Air emission	Hydrocarbons Carbon monoxide
Wastewater contaminants	Oil and grease High BOD High COD
<u>Economic Impacts</u>	
Labor	25-75 jobs
Wages	\$500,000-\$1,000,000/year
Capital investment	\$15 million-\$50 million

Table MP 24. General requirements for onshore processing and treatment facilities, and potential environmental and economic impacts (New England River Basins Commission 1976).

Item	Requirements/Pollutants/Economics
<u>Site Considerations</u>	
Land	20-30 ha (50-75 acres)
Water	200,000-750,000 gal/d
<u>Environmental Impacts</u>	
Air emission	Carbon monoxide Hydrocarbons Hydrogen sulfides Nitrogen oxides Particulates Sulfur oxides
Wastewater contaminants	Oil and grease Heavy metals Phenols Halogens Chromium Sulfuric acid Phosphates Chlorine Zinc
Solid wastes	Scale and sludge Oil absorbents Spent desiccants
Noise	Up to 100 db on a 24 hour basis
<u>Economic Impacts</u>	
Labor	50-60 jobs
Wages	\$750,000-\$1,000,000/year
Capital investment	\$50 million-\$200 million

Table MP 25. General requirements for locating oil refineries, and potential environmental and economic impacts (New England River Basins Commission 1976).

Item	Requirements/Pollutants/Economics
<u>Site Considerations</u>	
Land	200-800 ha (500-2,000 acres)
Water	5-10 million gal/d
<u>Environmental Impacts</u>	
Air emission	Ammonia Aldehydes Carbon monoxide Hydrocarbons Particulates Sulfur oxides
Wastewater contaminants	Acids and caustics Floating and dissolved oil Dissolved solids Dissolved organics Cyanide Chromate
<u>Economic Impacts</u>	
Labor	200-600 jobs
Wages	\$6 million-\$10 million/year
Capital investment	\$5 million-\$250 million

Table MP 26. General requirements for locating platform fabrication yards, and potential environmental pollutants (New England River Basins Commission 1976).

Item	Requirements/Pollutants
<u>Site Considerations</u>	
Land	10-325 ha (25-800 acres)
Berthage	60-120 m (200-400 ft) 5-15 m (15-50 ft) depth
Water	40,000-100,000 gal/d
<u>Environmental Impacts</u>	
Air emission	Sand and metal dust Concrete and cement dust Nitrogen oxide Sulfur oxide Hydrocarbons Organic compounds
Wastewater contaminants	Heavy metals Chemicals Particulates
Noise	Up to 100 dB on a 24 hour basis

ENVIRONMENTAL ISSUES AND REGULATIONS (EIR)

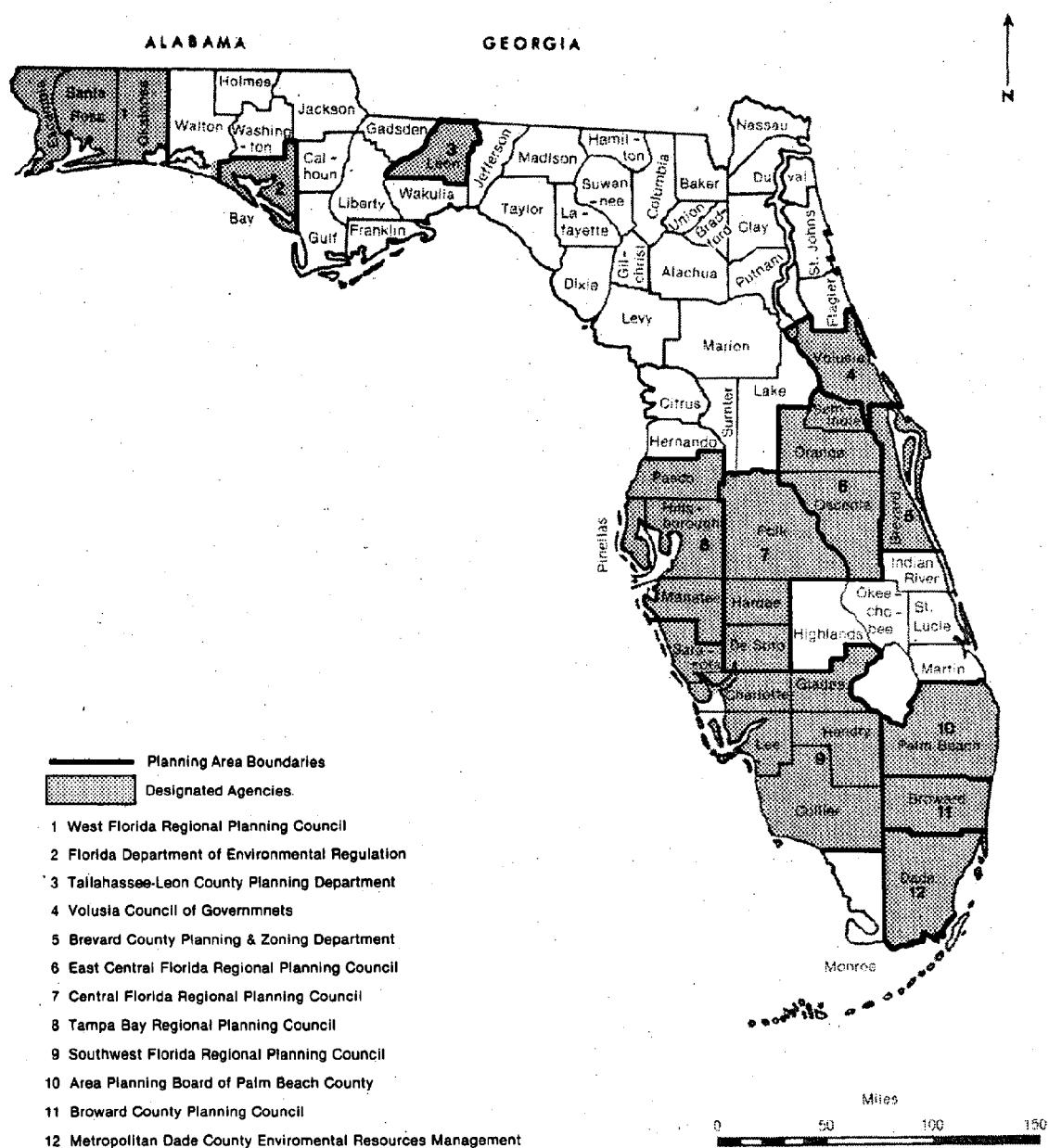


Figure 19. Areawide wastewater management planning areas (Florida Power and Light Co. 1979).



Figure 20. Regional Planning Council area boundaries (Florida Power and Light Co. 1979).

Table EIR 1. Location and description of solid waste problem areas (Florida Resources and Environmental Analysis Center 1978).

Site ^a	Location	Description
Allentown	1.5 mi N. of Allentown, 5 mi N. of SR-87, Santa Rosa County	2.5-acre dump operated by Santa Rosa county commission, owned by St. Regis Paper Co. 20.0-acre dump owned, operated by the county commission 80.0-acre dump, owned, operated by the county commission
Argyle	1.0 mi NE. of Jct. I-10, SR-183, Walton County	Unknown
Baker	2.1 mi SE. of Baker, NE. side of SR-4, Okaloosa County	Unknown
Baker	2.0 mi SE. of Baker, at Jct. SR-4B, SR-4	Closed 9/75
Bayou Woods	Okaloosa County Corner Bayou Woods, Sotir Drive, Fort Walton Beach,	2.0-acre dump, owned, operated by the county commission, closed 7/75
Berrydale	2.5 mi N. of Jct. SR-4 & SR-87, Santa Rosa County	1.0 mi S. of U.S. 98, W. side of SR-835, Walton County
Blue Mountain	0.2 mi W. of SR-71, 0.5 mi S. of county line, Gulf County	42.5-acre dump, operated by S. Walton County Mosquito Control district, owned by St. Joe Paper Co.
Buckhorn Sanitary Landfill	Jamesville Rd. 0.5 mi N. of U.S. 90 W. of Pensacola, Escambia County	40.0-acre dump, owned and operated by the county commission 23.0-acre dump, owned and operated by Escambia County Solid Waste Department
Bue lah Sanitary Landfill		Continued
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Table EIR 1. Continued.

Site	Location	Description
Carrabelle City Dump Chumuckla	End of SR-376, Carrabelle Airport, Franklin County 0.5 mi S. of Jct. SR-182, SR-197, Santa Rosa County	8.3-acre dump, owned and operated by city of Carrabelle 1.0-acre dump, operated by the county commission, owned by St. Regis Paper Co.
City Dump, Apalachicola	2.0 mi NW. of Apalachicola SR-384, Franklin County	22.0-acre dump, owned and operated by city of Apalachicola
City of Pensacola, Transfer Station	100 W. Leonard St., Escambia County	Volume reduction site, owned and operated by city of Pensacola
Crestview	2.0 mi SE. of Jct. I-10, SR-85 on John King Rd., Okaloosa County	40.0-acre dump, owned and operated by the city of Crestview
DeFunik Springs	0.8 mi SSW. of Airport, Walton County	20.0-acre dump, owned and operated by city of DeFunik Springs
East Milton, Airport Landfill	N. end of Airport, Santa Rosa County	120.0-acre dump, owned and operated by the county commission
Eastpoint Landfill	1.5 mi NE. of Eastpoint, Franklin County	23.0-acre dump, owned by Vrooman Trust, operated by the county commission
Ebro	1.0 mi NNW. of Ebro, Franklin County	40.0-acre dump owned by power company, operated by the county commission
5 Mile Camp		4.6-acre sanitary landfill owned and operated by the county commission

Continued

Table EIR 1. Continued.

Site	Location	Description
Freeport	1.5 mi S. of Jct. SR-20, SR-83A, Walton County	20.0-acre dump, owned and operated by the county commission
Holley	1.0 mi N. of East Bay Bridge, SR-87, Santa Rosa County	1.5-acre dump, operated by the county commission, owned by Eglin A.F.B., closed 2/76
Holley #2	2.0 mi E. of Holley, Santa Rosa County	Owned and operated by the county commission
Holt	1.5 mi SW. of Holt, N. of RR., Okaloosa County	Dump, owned by St. Regis Paper Co., operated by city of Fort Walton Beach, closed 11/75
Honeyville	1.0 mi SSE. of Honeyville, Gulf County	12.0-acre dump, owned and operated by the county commission
Howard's Creek	0.5 mi S. of SR-387, at Howard Creek Subdivision, Gulf County	4.0-acre dump, owned and operated by the county commission
Jay	S of SR-4, 4.0 mi W. of Jay, Santa Rosa County	8.5-acre dump, owned and operated by the county commission
Klondike Rd., Sanitary Landfill	U.S. 90, Klondike Rd., Escambia County	95 acres, owned and operated by Escambia County Solid Waste Department
Lanark Village	2.0 mi ENE. of Lanark Village, Franklin County	29.0-acre dump, owned by St. Joe Paper Co., operated by the county commission
Laurel Hill	1.1 mi NW. of Laurel Hill, Okaloosa County	20.0-acre dump, owned and operated by the county commission

Continued

Table EIR 1. Continued.

Site	Location	Description
Laurel Hill #2	2.0 mi W. of Laurel Hill, N. of SR-85, Okaloosa County	Owned and operated by the county commission
Lynn Haven	1.3 mi E. of Lynn Haven, S. of SR-390, Bay County	10.0-acre dump, owned and operated by the city of Lynn Haven, closed 5/77
Majette Bayou George	1710 Alabama Ave. Lynn Haven, Bay County	320.0-acre sanitary landfill, owned and operated by the county commission
Mexico Beach	N. of U.S. 98, 11.6 mi SE. of Tyndall A.F.B., Bay County	5.0-acre dump, owned by St. Joe Paper Co., operated by the county commission
Mossy Head	1.0 mi N of Jct. U.S. 90, SR-285, Walton County	1.0-acre dump, owned and operated by the county commission
Munson	0.8 mi E. of Jct. SR-194, SR-4, Santa Rosa County	1.5-acre dump, owned by Blackwater River State Forest, operated by the county commission
New Harmony	1.0 mi W. of Jct. SR-187, SR-2A, Walton County	1.0-acre dump, owned and operated by the county commission
Newport Sanitary Landfill	0.3 mi W. of Jct. of Jackson St. & Keys Ct. Pensacola, Escambia County	4.0-acre sanitary landfill, owned by Omni-Vest, Inc., operated by Reichold Chemicals Inc., Newport Division
Niceville-Valparaiso	1.5 mi NNW. of Jct. SR-20, SR-85, Okaloosa County	40.0-acre dump, owned and operated by the county commission
Oak Grove Landfill	1.5 mi E. of Oak Grove, Gulf County	15.0-acre dump, owned and operated by the county commission

Continued

Table EIR 1. Continued.

Site	Location	Description
Pace	SR-197, U.S. 90, Santa Rosa County N. Gulf Blvd., Panama City Beach, Gulf County	40.0-acre dump, owned and operated by the county commission
Panama City Beach Transfer Station	Bay Ave., 15th St. Panama City, Bay County 0.2 mi W. of Jct. SR-180, SR-187, Walton County	40.0-acre dump, owned and operated by Gulf Mosquito Control District Volume reduction site, owned and operated by Panama City 2.0-acre dump, owned and operated by the county commission
Pioneer Sand Pit	S. end of Soufley Field, Escambia County	15.3-acre sanitary landfill, owned and operated by the Pioneer Sand Co.
Port St. Joe	1.5 mi NE. of Jct. U.S. 98, SR-382, Gulf County	18.0-acre dump, owned and operated by the county commission
Quinette Landfill	2.1 mi NE. of Jct. SR-95A, SR-184, on Quinette Rd., Escambia County	9.2-acre dump, owned and operated by the county commission
Southport	1.1 mi NNW. of Southport, E. of SR-77, Bay County	10.0-acre dump, owned by Hunt Oil Co., operated by the county commission
St. George Island	Bayshore Dr. and 2nd. St., W. on Island, Franklin County	1.0-acre dump, owned by Leisure Properties, Ltd., operated by the county commission, closed 2/76
St. Teresa Dump	0.3 mi NW. of Camp Weed, N. side U.S. 98, Franklin County	7.0-acre dump, owned by St. Joe Paper Co., operated by the county commission

Continued

Table EIR 1. Concluded.

Site	Location	Description
Walton Bridge	Old Walton Bridge Rd. at Big Branch Creek, Walton County.	2.0-acre dump, owned and operated by the county commission
West Red Bay	2.6 mi W. of Red Bay, Walton County	1.0-acre dump, owned and operated by the county commission
White City	SR-71 at Intracoastal Waterway, Gulf County	5.0-acre dump, owned and operated by the county commission
Wright	1.6 mi N. of Beal St. extension, Eglin A.F.B., Okaloosa County	160.0-acre dump, owned by Eglin A.F.B., operated by the county commission

a Two categories of sites are listed: "sanitary landfills" and "dumps". A sanitary landfill meets all of the requirements of the Department of Environmental Regulation permitting program, a dump does not.

Table EIR 2. Location and description of solid waste facilities by county (Florida Department of Environmental Regulation, Solid Waste Management Program 1981a) .

County	Site name	Address	Population served ton/day site area a	# Monitoring wells (MW) special waste & spilled materials accepted
Bay	Panama City Beach transfer station	N . Gulf Blvd .	14,000 100 yd ³ /d	100 yd ³ , hopper 7 yd ³ , compactor
	Southport dump	SR-77	2,500, 10 acres	
	Panama City transfer station	Bay Ave . and 15th St .	40,000 160 ton/day 1-acre site	household/commercial
	Majette Tower b	S . of SR-390 on John Pitts Rd .	90,000 255 tons/day 200-acre site	3 MW 9 monitoring points accept emergency spill
	Bay County solid waste lf site	Hwy . 20 and Hwy . 77	100,000 978 yd ³ /d	5 MW
	Bay County c	SR-20 and SR-77	N.D.	6 MW
Escambia	Beulah slf	Jamesville Rd .	185,000 23-acre site	1 active sludge bed
	Quinette dump	Quinette Rd .	15,000 9 .2-acre site	N.D.
	Pioneer sand pit	N.D.	Industrial site 15 .3-acre site	1 MW

Continued

Table EIR 2. Continued.

County	Site name	Address	Population served ton/day site area	# Monitoring wells (MW) special waste & spilled materials accepted
Escambia	Perdido C	Beulah-Muskogee Rd.	255,000 700 ton/day 424-acre site	7 MW
	5 Mile Camp dump	Old Bratt Rd.	3,500 4.6-acre site	N.D.
	City of Pensacola transfer station	100 W. Leonard St.	65,000 110 yd ³ /d	N.D.
	Klondike Rd. C	Klondike Rd.	185,000 3700 yd ³ /d 95.0-acre site	3 MW
Franklin	Franklin County C	SR-65	10,700 70 yd ³ /d 7-acre site	4 MW
Gulf	Port St. Joe C	Niles Rd.	6,600 18-acre site	3 MW not in operation
	Buckhorn C	SR-71	4,500 40-acre site	1 MW
	Honeyville dump	N.D.	500 12-acre site	N.D.

Continued

Table EIR 2. Continued.

County	Site name	Address	Population served ton/day site area	# Monitoring wells (MW) special waste & spilled materials accepted
Gulf	Howard's Creek Dump	SR-387	500 4-acre site	N.D.
	Oak Grove dump	N.D.	1,000 15-acre site	N.D.
	Port St. Joe dump	U.S. 98 and SR-382	4,000 18-acre site	N.D.
	White City dump	SR-71	N.D.	N.D.
Okaloosa	Baker #1 dump	N.D.	6,000	2 MW
	Niceville C	SR-26 and SR-85	26,000 ³ 310 yd ³ /d 20-acre site	3 MW
	Wright #2 C	N. Beal St.	60,000 1315 yd ³ /d 160-acre site	4 MW
	Laurel Hill #2	N. of SR-85A	5,000 20-acre site	2 MW
	Baker C	SR-4 and SR-4B	20,000 36-acre site	3 MW

Continued

Table EIR 2 . Continued.

County	Site name	Address	Population served ton/day site area	# monitoring wells (MW) special waste & spilled materials accepted
Okaloosa	Baker #2 C	1/4 mi W. of Baker #1	6,000 185 yd ³ /day 36-acre site	2 MW
Santa Rosa Central C	Galt City Rd.		9,300 1140 yd ³ /d 114-acre site	3 MW sludge drying beds
Holley #3	N.D.		10,000 730 yd ³ /d 80-acre site	3 MW
Santa Rosa N.	SR-4		10,000 190 yd ³ /d 35-acre site	3 MW
Northwest C	1/2 mi W. of Hwy. 89 7 mi S. of Jay		6,000 60 yd ³ /d	1 MW
Walton	Blue Mountain dump	SR-83S	6,250 42-acre site	N.D.
	New Harmony dump	SR-187 and SR-2A	150 1.0-acre site	N.D.
	Paxton dump	SR-180 and SR-187	150 2-acre site	N.D.

Continued

Table EIR 2. Concluded.

County	Site name	Address	Population served ton/day site area	# Monitoring wells (MW) special waste & spilled materials accepted
Walton	Walton County ^c	County Rd. 183-A	12,000 40-acre site	1 MW

a Data were presented as found.

b Landfill.

c Sanitary landfill.

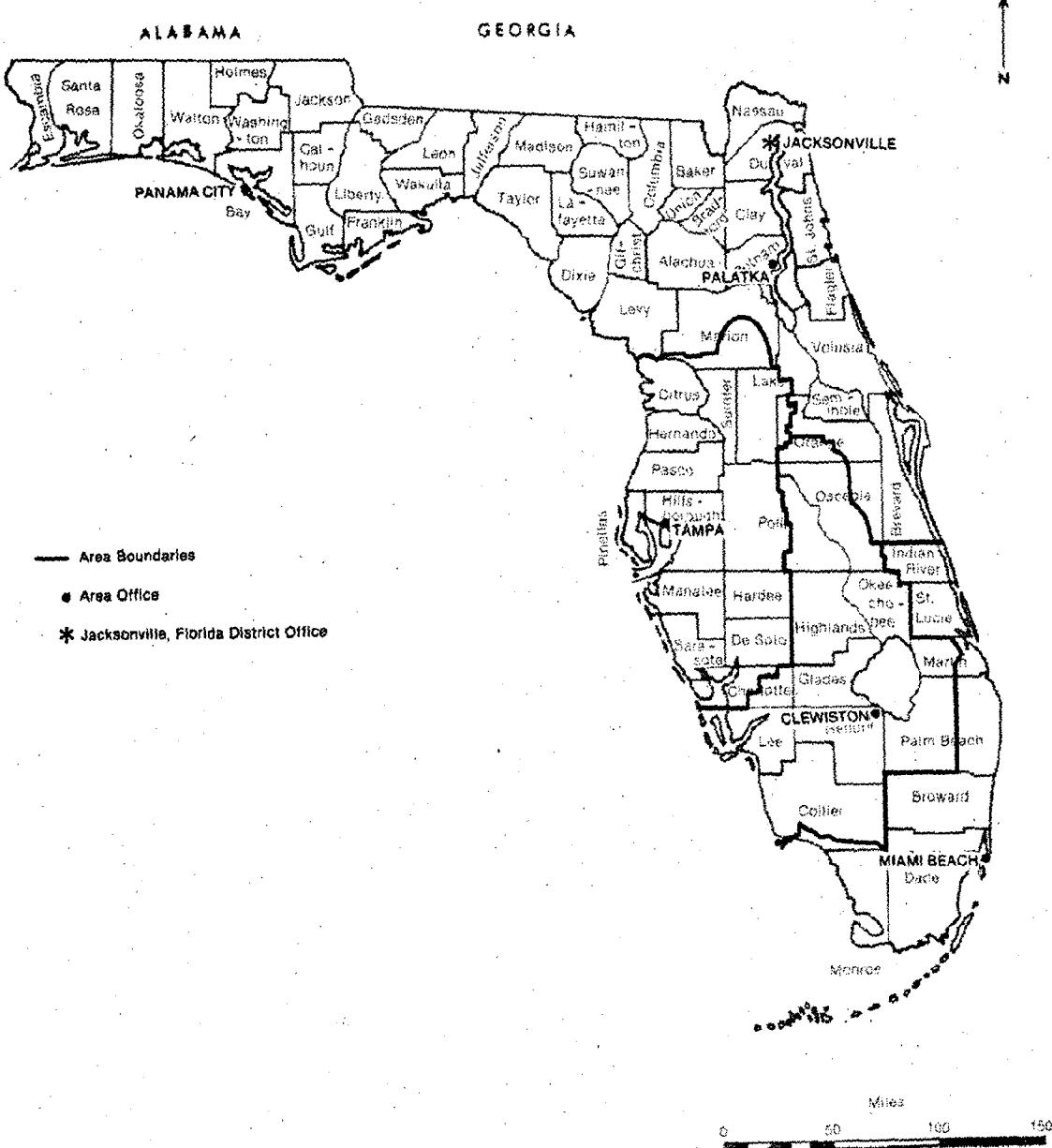


Figure 21. U.S. Army Corps of Engineers regulation districts (Florida Power and Light Co., 1979).

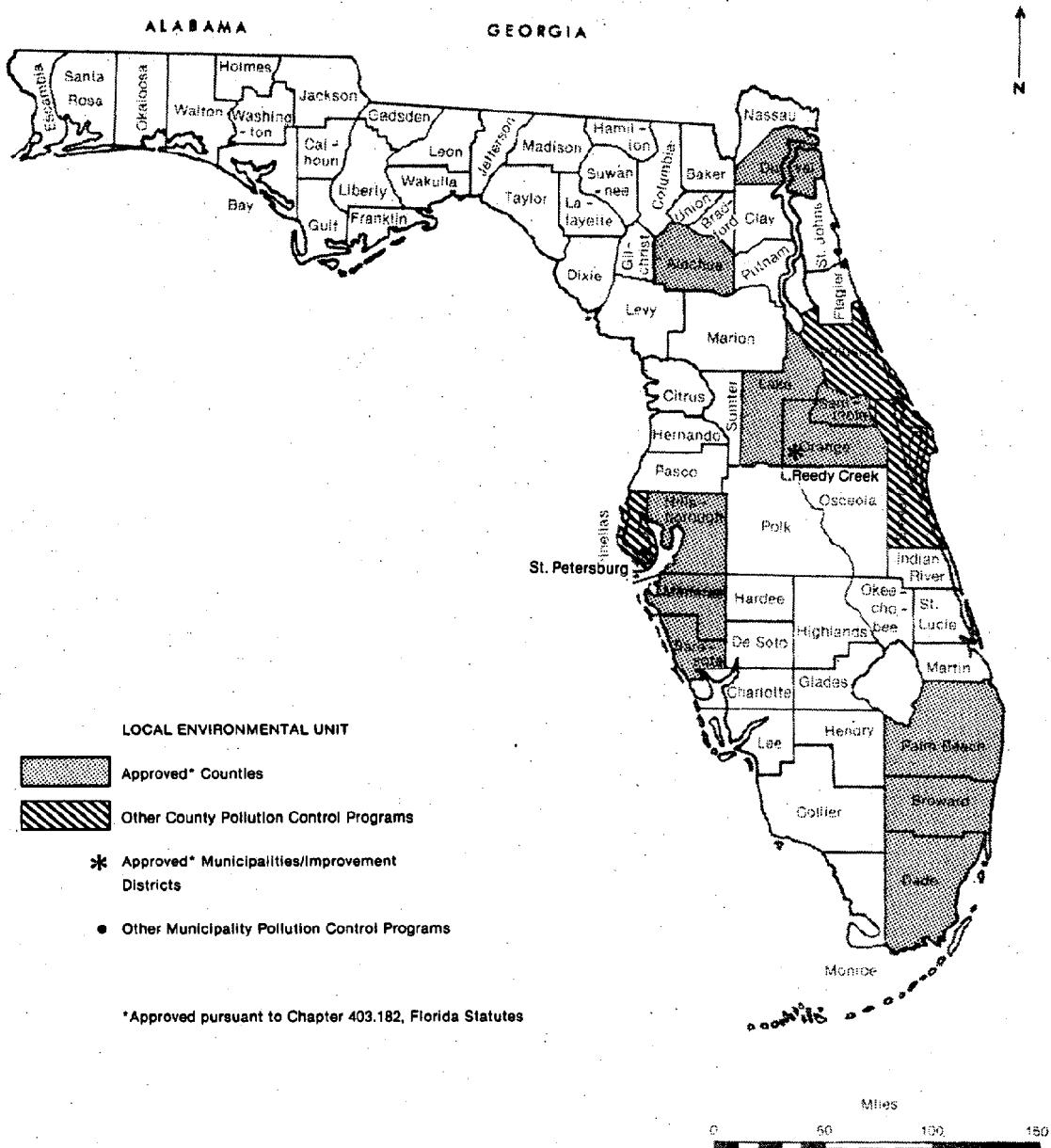


Figure 22. Local pollution control programs (Florida Power and Light Co. 1979).

Table EIR 3. Hazardous waste incident, Youngstown train derailment (Herndon and Teaf 1978).

Personal damage: Eight deaths and more than 100 injuries. Also, more than 3,700 persons had to be evacuated from within a 10-mile radius of the spill.

Environmental damage: Minor. On 24 March and 26 June 1978, representatives from the U.S. Environmental Protection Agency (EPA), Region IV visited the derailment site and determined that the clean-up operations were satisfactory, the chlorine neutralization pits were successfully covered and that the area was "environmentally secure."

Economic damage: Uncalculated, but would include extensive costs to local, state and federal groups involved in the rescue, evacuation and treatment of injured persons, as well as costs for teams necessary to safely treat and clean up potentially hazardous wastes from the wreck.

Cause of problem: The derailment of a train, including a tank car which carried chlorine.

Type and quantity of hazardous waste: A ruptured railroad tank car carrying several thousand gallons of liquid chlorine.

Date of incident: 26 February 1978.

Location: Youngstown, Bay County.

Remedial action: Evacuation was carried out within a 10 to 12 mi radius of the wreck site, and the chlorine-containing tanker car was transported on foam to a nearby pit dug specifically for the purpose. The chlorine was carefully bled into the pit along with a large volume of caustic soda and water. The tank car was then filled with water to stabilize the residual chlorine. Existing drinking water wells were more than 0.5 mi away, but monitoring of well water and surface water continued in order to detect possible future contamination. EPA representatives set January 1979 as the time after which wells safely could be drilled in the area.

Table EIR 4. Hazardous waste incident, Fanning Bayou fish kill (Herndon and Teaf 1978).

Personal damage: None.

Environmental damage: Extensive local fish kill and undetermined damage to other aquatic life in Fanning Bayou, Bay County by spilled chemicals and tank truck washings.

Economic damage: Repairs to the dike system by McKenzie Tank Lines were made at a cost of \$7,300.83. Possible fines and subsequent damages due to the fish kill could total over \$46,000.

Cause of problem: A ruptured dike at the Southport site of McKenzie Tank Lines caused a large quantity of chemical contaminants and tank washing solutions to spill into Charlie Williams Creek and Fanning Bayou.

Type and quantity of hazardous waste: 35,000 gal of wastewater containing Oakite 24 steam cleaning compound, neutralized spent acids, phenols, oils and greases and various grades of resin.

Date of incident: 13 October 1976.

Location: McKenzie Tank Lines property adjoining Charlie Williams Creek and Fanning Bayou, Southport, Bay County, S. of SR-391.

Remedial action: Repairs to the dike took place on the day following the spill, 14 October and action was taken against McKenzie Tank Lines by the Florida Department of Environmental Regulation beginning with a warning notice on 20 October 1976 and recommendation for penalties for violation of pollution laws on 1 December 1976.

Table EIR 5. Hazardous waste incident, Crestview train derailment, Okaloosa County (Teaf 1980).

Personal damage: Fourteen persons injured by inhalation of toxic fumes from a damaged chlorine tank car. Two of these were hospitalized after being overcome by chlorine fumes at ground level which were disturbed by helicopter rotor downwash during a helicopter surveillance overflight by investigators from the National Transportation Safety Board (NTSB) and the U.S. Senate.

Environmental damage: Trees and groundcover were defoliated by the ammonia cloud for approximately 650 ft NW. of the derailment site. There was extensive fire damage within a 150-ft radius of the burning cars. Dead fish were observed in the immediate area of the leaking phenol car. Subsequent biological assessment of the area indicated significant damage to aquatic life in the Yellow River extending for 900 yd downstream from the derailment site.

Economic damage: Damaged or destroyed equipment was valued at \$813,000, damaged track or structures were estimated at \$258,000, lost or contaminated product was valued at \$187,000. Total damages were approximately \$1,258,000. Total costs to various agencies in response and sampling efforts were not available. Costs were not assigned to damaged wildlife.

Cause of problem: Derailment of 29 cars of a 119-car freight train owned by Louisville and Nashville (L&N) Railroad. Of the derailed cars, 26 were placarded hazardous materials tank cars.

Type and quantity of hazardous waste: Twenty-six derailed cars containing hazardous materials included 17 containing anhydrous ammonia, 3 containing acetone, 4 containing methyl alcohol, 1 containing chloride and 1 containing carbolic acid.

Date of incident: 8 April 1979.

Location: L&N Railroad bridge at Yellow River, 5 mi W. of Crestview, FL.

Remedial action: By 6 April all cars had been derailed, destroyed, or had cargo transferred to other holding facilities. With the exception of materials destroyed by fire, only the chloride car was disposed of on-site. Its contents were drained into a lined pit where the material was mixed with caustic soda to neutralize the chlorine.

L&N Railroad was ordered to pay the Florida Department of Environmental Regulation (DER) costs (\$4,403.44) and a fine (\$20,000) in connection with the derailment. A check for the total amount was received by DER on 28 November 1979.

Table EIR 6. Hazardous waste incident, demolition of out-of-date laboratory reagents from Escambia County schools (Teaf 1980).

Personal damage: None.

Environmental damage: None.

Economic damage: Not calculated, but includes cost of Navy team of explosives experts from Panama City to package and remove 22 oz of crystallized picric acid. In addition, following this incident an extensive inventory was undertaken to identify, repackege and dispose of other potentially dangerous, outdated reagents at the schools.

Cause of problem: Discovery of 22 oz of outdated, crystallized picric acid, a close structural relative of trinitrotoluene (TNT), at three schools in Escambia County. This incident led to the discovery of many other stored chemicals, the shelf life of which had expired and which posed a potential threat because of their flammability, toxicity or explosive nature.

Type and quantity of hazardous waste: Small quantities (1-5 lb) of a wide variety of potentially dangerous, outdated laboratory reagents found stored at several (12) Escambia County schools. Particularly dangerous was a total of 1.5 lb of picric acid found at three schools.

Date of incident: May - June 1979.

Location: Twelve Escambia County public schools.

Table EIR 7. Hazardous waste incident, phenolic sludges discharged into Bayou Chico, Escambia County (Teaf 1980).

Personal damage: None.

Environmental damage: The soil surrounding the Reichold Chemical Co. plant contains extensive hydrocarbon residues from chemical processing dating back 50 years or more.

Economic damage: Improvements in treatment facilities to reduce discharge were estimated to cost approximately \$83,000. Costs of monitoring and enforcement were not available.

Cause of problem: Presence of hydrocarbons in soils of Reichold Chemical Co. This problem is aggravated by inadequate treatment and retention of industrial wastes by Reichold's current operation. Soils produce a chronic discharge of hydrocarbons into Bayou Chico.

Type and quantity of hazardous waste: Soil contains rosins and various hydrocarbons including oils, grease and phenols. Phenol concentration has been measured at 400 micrograms/liter in Bayou Chico near discharge point. Volume of the discharge has not been estimated.

Date of incident: This is a chronic problem dating back many years. Occasional equipment malfunctions aggravate the problem.

Location: Reichold Chemical Co. plant on the NE. arm of Bayou Chico, Escambia County.

Remedial action: Reichold Chemical Co. is currently improving their treatment facilities to reduce sludge discharge in accordance with agreements worked out with the Florida Department of Environmental Regulation (DER).

Narrative: Reichold Chemical Co. has been in operation for 50 or more years. Their original business was removing old pine stumps and processing them to obtain turpentine and other hydrocarbon products. This activity was carried on for many years without regard for pollution of the surrounding area. Consequently, hydrocarbon wastes have built up in the soil to the extent that a chronic discharge of these wastes into Bayou Chico occurs.

This chronic problem led to investigation of Reichold's current waste treatment facilities. These were found to be inadequate. On 26 March 1979 Reichold Chemical Co. signed a Florida DER consent order thereby agreeing to improve their treatment facilities. These improvements are designed to reduce the amount of discharge, particularly phenols.

Table EIR 8. Hazardous waste incident, industrial waste discharge into Airplane Bayou, Escambia County (Teaf 1980).

Personal damage: None.

Environmental damage: An estimated 20,000 poeciliid fish were killed.

Economic damage: Cost to the State of Florida for tracing, controlling and abating the pollution was estimated at \$455.22. Penalty damages for fish kill were settled for \$600.00.

Cause of problem: Malfunction of an industrial waste treatment lift (pump) station at the U.S. Navy Aircraft Rework Facility, Pensacola.

Type and quantity of hazardous waste: Approximately 80,000 gal of untreated industrial wastes, primarily paint sludges containing oils, grease and phenols.

Date of incident: 12 January 1979.

Location: U.S. Navy Aircraft Rework Facility in Pensacola. Discharge was into Airplane Bayou near this facility.

Narrative: On 12 January 1979 a lift (pump) station malfunction at the U.S. Navy Aircraft Rework Facility in Escambia County caused approximately 80,000 gal of untreated industrial sludge to be discharged into Airplane Bayou. This sludge contained primarily grease, oils and phenols. As a result of this spill, about 20,000 fish were killed.

The Navy signed a Department of Environmental Regulation (DER) consent order in August 1979 thereby agreeing to reimburse the State of Florida for pollution control efforts and for damages resulting from the fish kill. Reimbursement for pollution control amounted to \$455.72. Damages were settled for a total of \$600.00. The Navy also agreed to submit operation and emergency procedures designed to prevent a recurrence of the problem.

The waste sludges produced by the Navy at the rework facility had been of concern since at least 1976. Several laboratory analyses were conducted to determine the types and relative amounts of hazardous materials present in the sludge. The results of these analyses showed the presence of phenols, some heavy metals, and other substances classified as hazardous. This knowledge required changing disposal procedures which had previously consisted of dumping the sludge in a nearby landfill. A decision was made to ship the sludge to the Chemical Waste Management of Alabama waste disposal facility in Livingston, AL.

Table EIR 9. Hazardous waste incident, stored pesticide at Escambia County Rodent Control (Teaf 1980).

Personal damage: None.

Environmental damage: None.

Economic damage: Not calculated, but probably low due to minimal leaching from deteriorated containers and rapid response by a disposal team from the pesticide manufacturer. Costs were limited to time required for re-packaging and removal by pesticide manufacturer.

Cause of problem: A substantial quantity of outdated pesticide powder was stored in containers which were deteriorating and leaking.

Type and quantity of hazardous waste: Approximately 70 lb of pesticide powder named "A-Dust", of which the active ingredient is calcium cyanide. This compound generates toxic cyanide gas on contact with water.

Date of incident: Transportation and disposal problem was brought to the attention of Florida Department of Environmental Regulation (DER) on 10 January 1980.

Location: Pesticide was stored at the warehouse of Escambia County Rodent Control, Pensacola, Escambia County.

Remedial action: Florida DER officials contacted the pesticide manufacturer, American Cyanamid, who agreed to coordinate the disposal of the material. This was accomplished in January 1980.

Table EIR 10. Hazardous waste incident, Molino train derailment, Escambia County (Teaf 1980).

Personal damage: None. Evacuation was carried out to a distance of two mi from the incident site, and increased to five mi during detonation operations. Approximately 200 persons were included in the evacuation.

Environmental damage: Extensive. 100% biological destruction was estimated for 25.5 acres, 99% was estimated for 3.5 acres and 76% destruction was estimated for an additional 3.5 acres. A total of 32.5 acres were determined to be severely affected (greater than 75% biological destruction).

Economic damage: Value of the biological damage described above was calculated at a minimum of \$1,961,000 and a maximum of \$7,465,000. A "moderate" value of \$5,129,000 was recommended as a figure for out-of-court settlement of damages. Cost of the biological evaluation was calculated to be \$1,976. Costs of \$48,455 from demolition of the tank cars were billed to the U.S. Environmental Protection Agency (EPA).

Cause of problem: Derailment of 22 cars of a 105-car Louisville and Nashville (L&N) train, 19 of which contained hazardous materials.

Type and quantity of hazardous waste: Six railroad cars containing liquid petroleum gas (LPG), 1 containing acetone, 1 containing styrene, 1 containing methylethyl ketone, and 10 cars containing liquid sulfur.

Date of incident: 11-14 November 1979.

Location: L&N Railroad Line approximately 2 mi W. of Molino, Escambia County. The site was adjacent to Pretty Branch Creek.

Remedial action: After consideration of several alternatives, it was decided by the Regional Response Team that controlled detonation of the liquid petroleum gas was the safest way to proceed. This was accomplished on 14 November. Although an on-site inspection by federal and state authorities found the area safe, and stated that threat of further pollution was insignificant, subsequent surveys by the Florida Department of Environmental Regulation in late December 1979 showed the area to be still heavily affected by the spilled chemicals.

Table EIR 11. Inventory of potential hazardous waste sites by county^a (Florida Department of Environmental Regulation 1981b).

County	Site	Type	Permit	Status	Degree	Other
Bay	International Paper Co.	Private	N.D.	N.D.	Medium	No pond
	Majette Tower Site	Municipal	Operational	Active	Medium	No pond
	Southwest Forest Industries	N.D.	N.D.	N.D.	N.D.	N.D.
Escambia	Air Products and Chemicals	N.D.	N.D.	N.D.	N.D.	N.D.
	Klondike Landfill	Municipal	Operational	Active	High	No pond
	Monsanto	N.D.	N.D.	N.D.	N.D.	N.D.
	Pioneer Sand Co.	Private	None	Active	High	No pond
	Reichhold Chemical (Bell's Pit)	Municipal	N.D.	N.D.	High	Pond
	Reichhold Chemical	N.D.	N.D.	N.D.	N.D.	N.D.
	St. Regis Paper Co.	Private	N.D.	N.D.	Low	No pond
	Beulah Landfill	Municipal	No	Active	High	No pond
	Green's Pit	N.D.	N.D.	N.D.	N.D.	N.D.

Continued

Table EIR 11. Concluded.

County	Site	Type	Permit	Status	Degree	Other
Escambia	Pensacola Plant	N.D.	N.D.	N.D.	N.D.	N.D.
Escambia	Jim Walter Doors Century, FL	N.D.	N.D.	N.D.	Low	N.D.
Gulf	Allied Chemical Corporation	Private	N.D.	N.D.	Medium	No pond
Gulf	City of Port St. Joe Port St. Joe, FL	Municipal	No	Active	Medium	No pond
Santa Rosa	Santa Rosa County Site (Also PPG Industries)	Private	N.D.	N.D.	Medium	No pond
Santa Rosa	Santa Rosa Land- fill (Also American Cy- anamid) Milton, FL	County	Yes	Active	Low	No pond

^a This data reflects information provided by the Eckhardt Sub-Committee of the U.S. House of Representatives, the U.S. Environmental Protection Agency and the Florida Department of Environmental Regulation.

Table EIR 12. Total number of industrial surface impoundments in Florida by size in acres (Florida Department of Environmental Regulation 1980b).

Total number of Industrial impoundments	Size (acres)
508	1
172	1-5
81	6-15
57	16-40
87	40
431	N.D.
Region 1336	N.A.

Table EIR 13. Total number of industrial impoundments and total number with monitoring wells and liners (Florida Department of Environmental Regulation 1980b).

County	Total number of impoundments	Number with monitoring wells	Number with liners
Bay	5	1	1
Escambia	30	9	14
Franklin	0	0	0
Gulf	2	0	0
Okaloosa	5	2	3
Santa Rosa	12	8	2
Walton	0	0	0
Region	54	20	20

Table EIR 14. Identified air quality problems (U.S. Army Corps of Engineers 1978).

Site	Location	Description
Agrico Chemical Division Alger-Sullivan Co.	Pensacola, Escambia County	Chemical phosphate; emission of particulates
American Creosote Works, Inc.	Century, Escambia County	Wood industry, emission of particulates
American Cyanamid Armstrong Cork Co.	Pensacola, Escambia County	Wood industry, emission of particulates
Basic Magnesia	Port St. Joe, Gulf County	MgO recovery from sea water, SO ₂ and particulates
Cantonment Fleming Lumber Co.	Escambia County, Crestview, Okaloosa County	Industrial emissions
Glidden-Durkee Organic Chemical Corp.	Port St. Joe, Gulf County	Lumber mill, emission of particulates
Gulf Power Corp.	Pensacola, Escambia County	Chemical processes, emission of particulates
Humble Oil & Refinery Co.	Jay, Santa Rosa County	Electric utility, emission of SO ₂ and particulates
International Paper Co.	Panama City, Bay County	Oil refining emission of SO ₂
Monsanto Co.	Gonzales, Escambia County	Pulp & paper, emission of SO ₂ and particulates
Pensacola	Escambia County	Textiles, emission of particulates, nitric acids, hydrocarbons Automotive exhausts (NO _x , CO ₂ , etc.)

Continued

Table EIR 14. Concluded.

Site	Location	Description
Reichhold Chemicals Newport Division St. Joe Paper Co.	Escambia County	Emission of hydrocarbons
St. Regis Paper Co.	Port St. Joe, Gulf County	Pulp, paper mill, emission of SO_2 and particulates
Tenneco Chemical, Inc.	Pensacola Escambia County	Pulp, paper mill, emission of particulates
		Naval stores, emission of particulates

Table EIR 15. Florida class II waters presently closed to shellfishing (U.S. Army Corps of Engineers 1978).

Site	Location	Description
Blackwater Bay	Santa Rosa County	Lower portion, Robinson Point S. to Escribano Point, closed to shellfishing
Choctawhatchee Bay	Walton County	Closed to shellfishing
East Bay	Bay County	W. portion of Bay closed to shellfishing, also small portion of E. side is closed
East Bay River	Santa Rosa County	W. portion of river to E. Bay entrance, closed to shellfishing
Escambia Bay	Santa Rosa County	Area from Louisville and Nashville Railroad Bridge S. to Emanuel Point, closed to shellfishing
North Bay	Bay County	Closed to shellfishing
Ochlockonee Bay	Franklin County	Closed to shellfishing
Pensacola Bay	Santa Rosa County	N. portion of Pensacola Bay, closed to shellfishing
Rocky Bayou	Okaloosa County	Closed to shellfishing
St. Joseph Bay	Gulf County	Closed to shellfishing
West Bay	Bay County	S. portion closed as it is a mariculture area

Table EIR 16. Identified water quality problems (U.S. Army Corps of Engineers 1978).

Site	Location	Description
Alaqua Bayou	Choctawhatchee Bay, Walton County	Agricultural runoff, low D.O., high nutrient and coliform levels
Apalachicola Bay	Franklin County	Low D.O., high nitrate and coliform levels
Bayou Chico	Pensacola Bay, Escambia County	Urban and industrial wastes
Bayou Grande	Pensacola Bay, Escambia County	Urban runoff
Bayou Marcus Creek	Perdido Bay, Escambia County	Urban runoff
Bayou Texar and Carpenters Creek	Pensacola Bay, Escambia County	Urban runoff
Blackwater River	Blackwater Bay, Santa Rosa County	City of Milton to Blackwater Bay, municipal sewage
Boggy Bayou	Choctawhatchee Bay, Okaloosa County	Low D.O., agricultural runoff, high nitrate & coliform levels
Chipola River	Calhoun and Gulf counties	Chipola River to Dead Lake, high nitrate levels, sewage waste discharges
Cinco Bayou	Choctawhatchee Bay, Okaloosa County	Low D.O., agricultural runoff, high nutrient and coliform levels
East Bay	Panama City, Bay County	Urban runoff, low D.O., high nitrogen, nitrate, and coliform levels
East Bay	Navarre,	Sewerage effluent, urban runoff
Eleven Mile Creek	Santa Rosa County	Cantonment to Perdido Bay, discharges of treated bleached/unbleached Kraft mill wastes
Escambia River	Perdido Bay, Escambia County	Urban and industrial runoff
	Western border, Santa Rosa County	Continued

Table EIR 16. Concluded.

Site	Location	Description
Escambia Bay	Escambia County	Urban, industrial effluent, carbonaceous, nitrogenous and phosphorus wastes saltwater intrusion due to aquifer drawdowns
Fort Walton Beach	Okaloosa County	Low D.O., agricultural runoff, high nutrient and coliform levels
Jose Bayou	Choctawhatchee Bay, Okaloosa County	Low D.O., high nitrogen, ammonia, coliform levels, agricultural runoff
LaGrange Bayou	Choctawhatchee Bay, Okaloosa County	Urban, industrial effluent, forest drainage
Mullatto Bayou	Escambia Bay, Santa Rosa County	Low D.O., high nitrate, nitrogen and coliform levels, urban runoff
North Bay	Panama City, Bay County	Urban runoff, high nitrate, ammonia and coliform levels
Pensacola Bay	Pensacola, Escambia County	High coliform levels, agricultural runoff
Perdido River and Bay	Western border, Escambia County	High nitrogen, nitrate, coliform levels, low D.O., urban runoff
St. Andrew Bay	Panama City, Bay County	High coliform levels, indirect urban discharges
St. Joseph Bay	City of Port St. Joe, Gulf County	Low D.O., high nutrient, coliform levels, agricultural runoff
Toms Bayou	Choctawhatchee Bay, Okaloosa County	Urban, industrial effluent, forest drainage
Trout Bayou	Escambia Bay, Santa Rosa County	High nitrogen, nitrate, coliform levels, low D.O., urban runoff
West Bay	Panama City, Bay County	

^a Dissolved Oxygen.

Table EIR 17. Known case of groundwater contamination (Florida Department of Environmental Regulation 1980b).

Case name: Fertilizer plant contamination of the sand-and-gravel aquifer, Escambia County.

Case description: In Pensacola, FL, concentrated acid wastes from a fertilizer plant were disposed of in unlined pits from about 1889 to 1957. The area is underlain by a sand and gravel aquifer, with an approximate hydraulic conductivity of 17.4 m/day (57 ft/day), to a depth of about three hundred meters (a thousand ft). In the area, the sand and gravel aquifer is extensively developed for industrial, municipal and domestic water supply. Ground water development for public supply was formally centered to the SE. of the plant site. Generally, the water table slopes to the east.. The contaminant plume migrated to the E. and S. General chemical characteristics of the waste were low pH and high dissolved solids, hardness, sulfate, fluoride, calcium and magnesium. A municipal well located 1.8 km (1.1 mi) E. of the disposal pits was abandoned in about 1958. The industry has since abandoned use of the pits and now uses deep disposal wells. However, field determinations of water samples collected in 1975 indicate that the ground water is still contaminated.

Table EIR 18. Summary of oil spill investigations from 1 January 1975 to 31 August 1980 by the Florida Department of Natural Resources (Florida Department of Natural Resources 1980).

Classification of spill	Year				
	1980	1979	1978	1977	1976
Major ^a	1	4	6	2	9
Moderate ^b	15	17	5	4	4
Minor ^c	81	86	79	125	147
					189

^a Discharge of pollutant of more than 10,000 gal into inland waters, or more than 100,000 gal into coastal waters, or a discharge of any quantity that substantially threatens the public health or welfare or generates wide public interest.

^b Discharge of pollutant of 1,000 gal to 10,000 gal into inland waters, or 10,000 gal to 100,000 in coastal waters, or a discharge of any volume that poses a threat to the public health or welfare.

^c Discharge of pollutant of less than 1,000 gal into inland waters, or less than 10,000 in coastal waters.

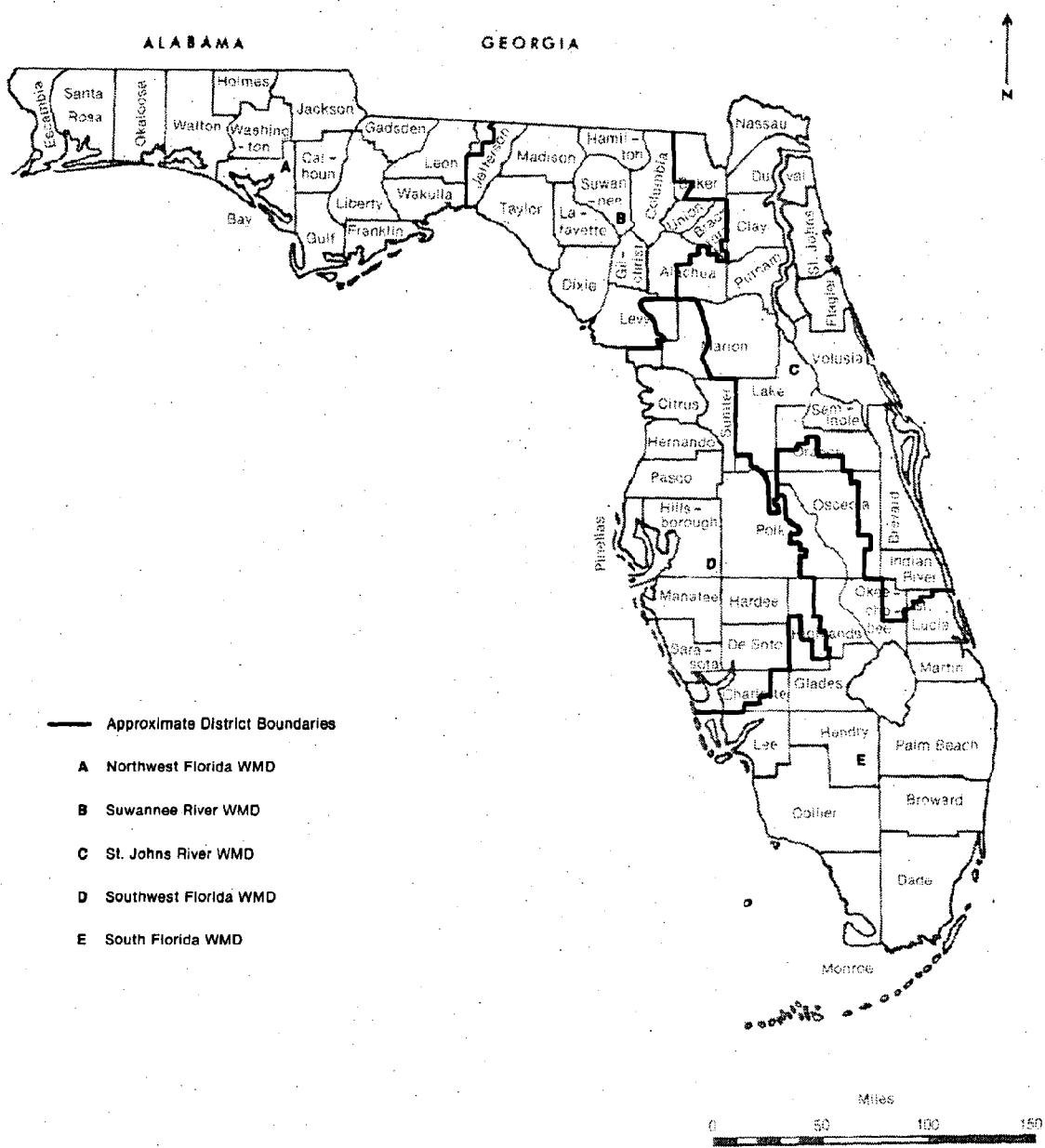


Figure 23. State water management districts (Florida Power and Light Co. 1979).

Table EIR 19. Geographic areas considered by the Florida Department of Environmental Regulation as having the greatest potential for agricultural non-point water quality problems^a (Florida Department of Environmental Regulation 1979a).

County	Agricultural activities
Bay	Row crops
Escambia	Row crops
Franklin	Row crops
Gulf	Row crops
Okaloosa	Row crops
Santa Rosa	Row crops
Walton	Row crops

^a Potential problem determination is based upon these variables: 1) fertilizer loading density, 2) pesticide loading density, 3) animal unit density, 4) amount of sediment delivered to streams.

Table EIR 20. Florida surface water dischargers with current wasteload allocations (WLA's) (Florida Department of Environmental Regulation 1979b).

County	Discharger	Receiving water
Bay	Captain Andersons Restaurant	Grand Lagoon
	GYMZ Corp.	Callaway Bayou
Escambia	Highland Park School	Goose Bayou
	KOA Panama City	Alligator Bayou
	Molemors TP	Martins Bayou
	Morris Manor SD ^b	Martins Bayou
	Noah Legears MHP ^c	Ditch to canal
	Parker Elementary School	Parker Bayou
	Parkway Apartments	Pitts Bayou
	Pines Mobile Homes	Parker Creek
	Prows TP	Watson Bayou
	St. Andrews Estates	Robi Bayou N. Bay
Escambia	Venture Out In America	Grand Lagoon
	Woodlawn SD ^d	North Bay
	Avondale STP ^d	Bayou Marcus
	Avondale STP	Bayou Marcus Creek
	City of Cantonment	Eleven Mile Creek
	City of Cantonment	Jacks Branch
	Ernest Ward High School	Pine Barren Creek
	Escambia County Road Camp	Eleven Mile Creek
	Lakeview MHP	Eight Mile Creek
	Lincoln Park SD	Eleven Mile Creek
	Montclair STP	Bayou Marcus
	Prison Camp SR-297A	Eleven Mile Creek
	St. Regis Paper Co.	Eleven Mile Creek
	Timberlake MHP	Bayou Marcus Creek
	Bayou Grande Villa STP	Bayou Grande
	City of Warrington	Bayou Chico
	City of Pensacola Main St. STP	Pensacola Bay
	Fountain Blue MHP	Bayou Chico
	Moreno Courts	Bayou Chico
	Moreno Courts	Jones Creek Swamp
	Pen Haven STP	Bayou Chico
	Santa Rosa Beach Administration	Santa Rosa Sound
	Santa Rosa Island Authority	Santa Rosa Sound
	Warrington	Jones Creek Swamp
	Pensacola NE. STP	Escambia Bay
	Reynolds Shopping Center	Eight Mile Creek
	Bluff Springs Campground	Canoe Creek
	Boise Cascade	Salter's Creek
	City of Sentyury	Escambia River
	Monsanto Corp.	Escambia River
	University of West Florida	Thompson Bayou

Continued

Table EIR 20. Concluded.

County	Discharger	Receiving water
Escambia	University of West Florida	Escambia River
Gulf	City of Wewahitchka STP	Chipola River
Okaloosa	Okaloosa County Airport	Moccasin Branch
Santa Rosa	Santa Rosa County Beach Administration Air Products and Chemical Corp. American Cyanamide Santa Villa SD Town of Jay City of Milton City of Gulf Breeze STP NAS Whiting Field	Santa Rosa Sound Pond Creek Pond Creek Pray Mill Creek Blackwater River Santa Rosa Sound Clear Creek
Walton	Freeport High School Showell Farms Inc.	Unnamed creek Carpenters

- a Trailer park.
- b Subdivision.
- c Mobile home park.
- d Sewage treatment plant.

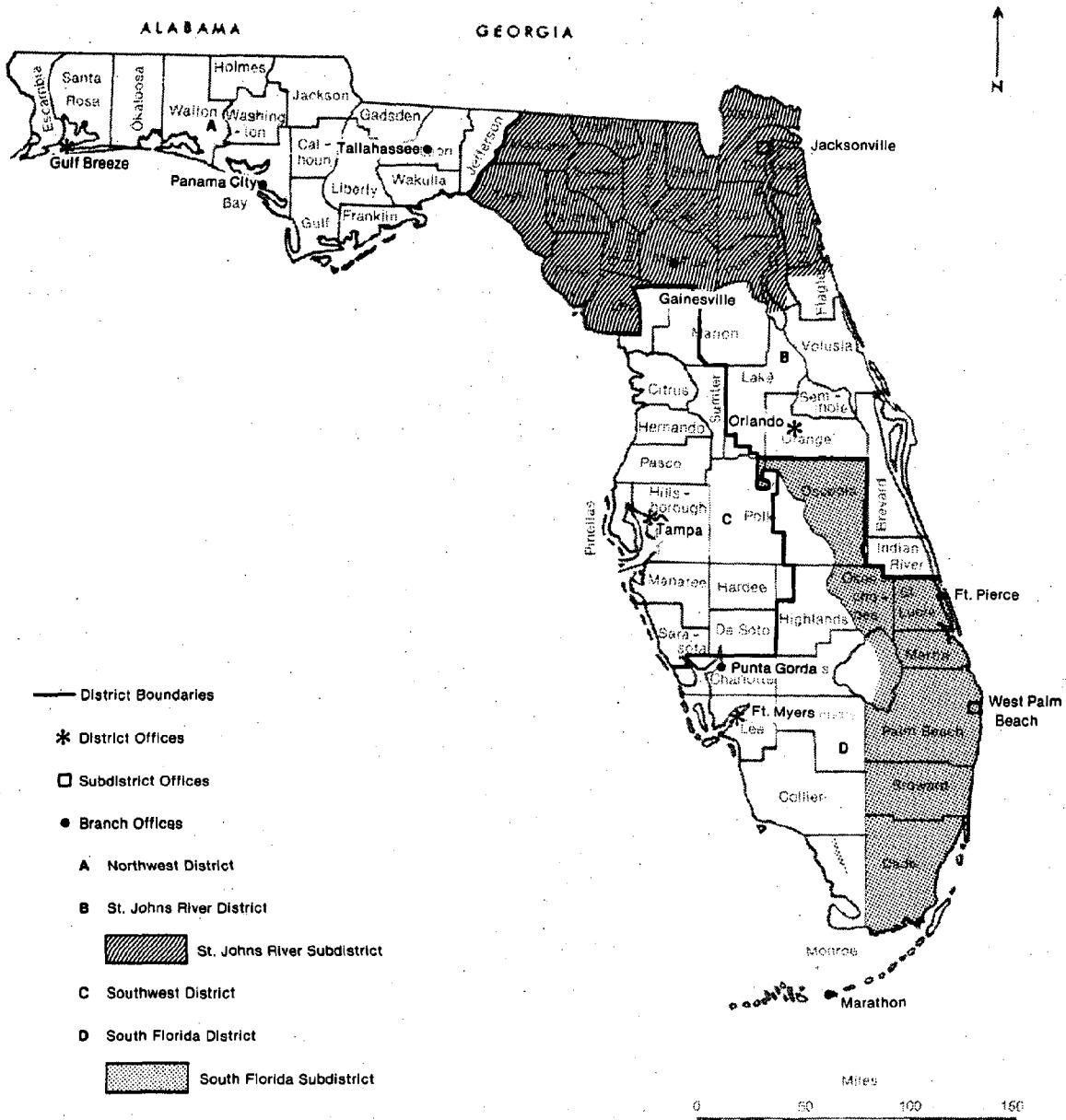


Figure 24. Districts and subdistricts of the Florida Department of Environmental Regulation (Florida Power and Light Co. 1979).

Table EIR 21. PNS^a water quality violations from 1974 to 1978 (Florida Department of Environmental Regulation 1979c).

County	Name	DO ^b			PH		TCOLI ^c		FCOLI ^d	
		N ^e	NV ^f	N	NV	N	NV	N	N	NV
Bay Escambia	St. Andrews Bay	31	2	50	3	32	2	9	0	
	Perdido Bay	45	0	55	31	49	4	22	1	
	Perdido River	41	1	59	1	37	0	13	1	
	Escambia Bay	55	0	66	3	55	5	20	9	
	Escambia River	42	2	61	3	43	0	18	0	
Gulf	Apalachicola River	31	0	48	1	30	1	12	0	
	St. Josephs Bay	3	0	8	1	4	0	0	0	
Okaloosa	Choctawhatchee Bay	35	1	51	1	35	1	12	0	
	Blackwater River	48	0	65	1	43	0	19	1	
Santa Rosa	Escambia River	28	0	35	4	25	0	2	0	
	East Bay	46	0	56	39	44	5	19	2	
Walton	Choctawhatchee River	30	0	46	0	31	3	11	1	

^a Permanent Network Stations, established in 1973, for the purpose of monitoring water quality in Florida's lakes, streams and estuaries.

^b Dissolved oxygen.

^c Total coliform.

^d Fecal coliform.

^e Number of samples.

^f Number of violations.

Table EIR 22. Water used for public supplies in Water Resources Council (WRC) subregions in 1970 (Pride 1973).

WRC Subregion	Water withdrawn Mgal/d ^a			
	GW ^b	SW ^c	All water	Per capita
WRC Subregion 0312				
Franklin	0.50	0.00	0.50	125.00
Subregion	15.30	1.20	16.50	142.00
WRC Subregion 0313				
Gulf	0.10	0.40	0.50	83.00
Subregion	1.90	0.40	2.30	95.00
WRC Subregion 0314				
Bay	0.70	37.40	38.10	982.00
Escambia	20.30	0.00	20.30	128.00
Okaloosa	7.90	0.00	7.90	130.00
Santa Rosa	2.40	0.00	2.40	162.00
Walton	0.70	0.00	0.70	76.00
Subregion	32.70	37.40	70.10	243.00
Florida	758.80	124.70	883.50	163.00

Continued

Table EIR 22. Concluded.

WRC Subregion	Water delivered (Mgal/d)				
	Industrial and commercial		All uses	Domestic use and losses	Consumed
	A/C ^d	Except A/C			
WRC Subregion 0312					
Franklin Subregion	0.00 1.20	0.10 5.20	0.10 6.40	0.40 10.10	0.10 5.40
WRC Subregion 0313					
Gulf Subregion	0.02 0.02	0.03 0.23	0.05 0.30	0.40 2.00	0.20 0.70
WRC Subregion 0314					
Bay	0.60	32.30	32.90	5.20	4.80
Escambia	0.90	4.70	5.60	14.70	8.10
Okaloosa	0.10	2.30	2.40	5.50	2.00
Santa Rosa	0.00	0.60	0.60	1.80	0.60
Walton	0.00	0.10	0.10	0.60	0.30
Subregion	1.60	40.00	41.60	28.50	16.00
Florida	46.20	120.00	166.20	717.30	234.80

^a Million gal per day.

^b Ground water.

^c Surface water.

^d Air conditioning.

Table EIR 23. Water used for irrigation in Water Resources Council (WRC) subregions in 1970 (Pride 1973).

WRC Subregion	Water withdrawn (Mgal/d) ^a					Conveyance loss	Consumptive use
	SW ^b	GW ^c	Other	All			
WRC Subregion 0312							
Franklin Subregion	0.00 2.15	0.00 1.04	0.00	0.00 3.20	0.00	0.00 0.00	0.00 2.50
WRC Subregion 0313							
Gulf Subregion	0.00 0.05	0.00 0.83	0.00	0.00 0.90	0.00	0.00 0.00	0.00 0.60
WRC Subregion 0314							
Bay	0.00	0.30	0.00	0.30	0.00	0.00	0.20
Escambia	0.00	0.10	0.00	0.10	0.00	0.00	0.10
Okaloosa	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Santa Rosa	0.00	0.20	0.00	0.20	0.00	0.00	0.10
Walton	0.00	10.10	0.00	10.10	0.00	0.00	7.60
Subregion	0.00	10.76	0.00	10.76	0.00	0.00	8.00
Florida	898.43	1,172.24		28.11	2,070.66	127.10	1,270.40

^a Million gal per day.

^b Surface water.

^c Ground water.

Table EIR 24. Self-supplied water for industrial use in Water Resources Council (WRC) subregions in 1970 (Pride 1973).

WRC Subregion	Water withdrawn (Mgal/d) ^a						Water consumed fresh	
	Ground water		Surface water		All water			
	Fresh	Saline	Fresh	Saline	Fresh	Saline		
WRC Subregion 0312								
Franklin	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Subregion	83.40	0.00	3.00	0.00	86.40	0.00	7.60	
WRC Subregion 0313								
Gulf	19.00	0.00	36.00	15.80	55.00	15.80	9.10	
Subregion	20.20	0.00	36.00	15.80	56.20	15.80	9.30	
WRC Subregion 0314								
Bay	2.00	0.00	0.05	0.00	2.05	0.00	0.50	
Escambia	47.80	0.10	42.90	0.00	90.70	0.10	27.10	
Okaloosa	4.70	0.00	0.00	0.00	4.70	0.00	1.60	
Santa Rosa	10.30	0.00	0.00	0.00	10.30	0.00	5.20	
Walton	1.20	0.00	0.00	0.00	1.20	0.00	0.20	
Subregion	66.00	0.10	42.95	0.00	108.95	0.10	34.60	
Florida	736.20	86.90	190.60	45.60	926.80	132.50	163.10	

Continued

Table EIR 24. Concluded.

WRC Subregion	Fresh water use by major classification (Mgal/d)					
	Phosphate mining	Pulp & paper processing	Citrus processing	Limerock mining	Chemical products processing	Other
WRC Subregion 0312 Franklin Subregion	0.00 0.00	0.00 53.70	0.00 0.00	0.00 0.00	0.00 0.00	0.00 32.70
WRC Subregion 0313 Gulf Subregion	0.00 0.00	55.00 55.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 1.20
WRC Subregion 0314 Bay	0.00	2.00	0.00	0.00	0.00	0.05
Escambia	0.00	26.20	0.00	0.00	54.30	10.20
Okaloosa	0.00	0.00	0.00	0.00	0.00	4.70
Santa Rosa	0.00	0.00	0.00	0.00	9.50	0.80
Walton	0.00	0.00	0.00	0.00	0.00	1.20
Subregion	0.00	28.20	0.00	0.00	63.80	16.15
Florida	318.30	237.40	86.50	28.90	97.10	158.60

Table EIR 25. Water used for thermoelectric power in Water Resources Council (WRC) subregions in 1970 (Pride 1973).

WRC Subregion	Cooling water (Mgal/d) ^a				
	Self-supplied		Ground water		Public supply
	Fresh	Saline	Fresh	Saline	
WRC Subregion 0312					
Franklin Subregion	0.00 160.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
WRC Subregion 0313					
Gulf Subregion	0.00 144.00	0.00 0.00	0.00 1.40	0.00 0.00	0.00 0.00
WRC Subregion 0314					
Bay	0.00	274.00	0.10	0.00	0.00
Escambia	205.00	15.00	0.80	0.00	0.00
Okaloosa	0.00	0.00	0.00	0.00	0.00
Santa Rosa	0.00	0.00	0.00	0.00	0.00
Walton	0.00	0.00	0.00	0.00	0.00
Subregion	205.00	289.00	0.90	0.00	0.00
Florida	1675.00	9340.00	10.90	50.10	2.30

Continued

Table EIR 25 . Concluded .

WRC Subregion	Other water (Mgal/d)			Water consumed	
	Self-supplied		Public supply	Fresh	Saline
	Surface fresh	Ground fresh			
WRC Subregion 0312					
Franklin	0.00	0.00	0.00	0.00	0.00
Subregion	0.00	0.30	0.00	1.40	0.00
WRC Subregion 0313					
Gulf	0.00	0.00	0.00	0.00	0.00
Subregion	0.00	0.00	0.00	0.90	0.00
WRC Subregion 0314					
Bay	0.00	0.00	0.00	0.30	3.50
Escambia	0.00	0.00	0.00	6.40	0.00
Okaloosa	0.00	0.00	0.00	0.00	0.00
Santa Rosa	0.00	0.00	0.00	0.00	0.00
Walton	0.00	0.00	0.00	0.00	0.00
Subregion	0.00	0.00	0.00	6.70	3.50
Florida	0.00	1.00	2.50	19.70	86.00

^a Million gal per day.

Table EIR 26. Water used for public supplies in 1975 (Leach 1978).

County	Water withdrawn (Mgal/d) ^a			
	GW ^b	SW ^c	Total	Per capita
Bay	1.95	32.59	34.54	418.00
Escambia	27.46	0.34	27.80	145.00
Franklin	0.99	0.00	0.99	148.00
Gulf	0.11	0.64	0.75	114.00
Okaloosa	9.31	0.00	9.31	117.00
Santa Rosa	3.40	0.00	3.40	90.00
Walton	1.08	0.00	1.08	102.00
Region	44.30	33.57	77.87	N.D.
Florida	982.83	162.98	1145.81	168.00

County	Water delivered by uses (Mgal/d)					
	Public supply	Agriculture	Industry	Commercial	A/C ^d	Consumed
Bay	7.84	0.00	25.56	1.14	0.00	12.49
Escambia	19.43	0.06	0.00	8.31	0.00	5.51
Franklin	0.72	0.00	0.06	0.22	0.00	0.69
Gulf	0.47	0.00	0.26	0.01	0.00	0.15
Okaloosa	8.53	0.12	0.00	0.66	0.00	4.16
Santa Rosa	2.99	0.06	0.00	0.35	0.00	1.04
Walton	0.86	0.00	0.02	0.18	0.02	0.52
Region	40.84	0.24	25.90	10.87	0.02	24.56
Florida	923.58	24.71	80.90	83.62	33.00	559.97

^a Million gal per day.

^b Ground water.

^c Surface water.

^d Air conditioning.

Table EIR 27. Rural water use in 1975 (Leach 1978).

County	Domestic use (Mgal/d) ^a				Livestock use (Mgal/d)			
	Withdrawn				Withdrawn			
	SWb	GWC	ATT	Consumed	SW	GW	ATT	Consumed
Bay	0.00	0.89	0.89	0.18	0.16	0.07	0.23	0.23
Escambia	0.00	3.28	3.28	0.60	0.17	3.02	3.19	3.19
Franklin	0.00	0.12	0.12	0.03	0.01	0.00	0.01	0.01
Gulf	0.00	0.43	0.43	0.08	0.08	0.04	0.12	0.12
Okaloosa	0.00	2.21	2.21	0.44	0.11	0.07	0.18	0.18
Santa Rosa	0.00	1.05	1.05	0.21	0.17	0.07	0.24	0.24
Walton	0.74	0.00	0.74	0.59	0.14	0.08	0.22	0.22
Region	0.74	7.98	8.72	2.13	0.84	3.35	4.19	4.19
Florida	2.05	200.93	202.98	50.33	12.15	50.87	63.02	62.57

County	All uses (Mgal/d)			
	Withdrawn			
	SW	GW	ATT	Consumed
Bay	0.16	0.96	1.12	0.41
Escambia	0.17	6.30	6.47	3.79
Franklin	0.01	0.12	0.13	0.04
Gulf	0.08	0.47	0.55	0.20
Okaloosa	0.11	2.28	2.39	0.62
Santa Rosa	0.17	1.12	1.29	0.45
Walton	0.88	0.08	0.96	0.81
Region	0.81	13.53	14.34	6.13
Florida	14.20	251.80	266.00	112.90

^a Million gal per day.

b Surface water.

c Ground water.

Table EIR 28. Water used for irrigation in 1975 (Leach 1978).

County	Total water withdrawn (Mgal/d) ^a			Conveyance loss	Consumptive use
	SW ^b	GW ^c	All		
Bay	0.00	0.00	0.00	0.00	0.00
Escambia	0.27	0.63	0.90	0.00	0.18
Franklin	0.00	0.00	0.00	0.00	0.00
Gulf	0.00	0.22	0.22	0.00	0.09
Okaloosa	0.34	0.38	0.72	0.00	0.14
Santa Rosa	0.00	0.33	0.33	0.00	0.07
Walton	0.19	0.59	0.78	0.00	0.13
Region	0.46	2.29	2.75	0.00	0.83
Florida	1,628.52	1,238.96	1,867.48	218.11	1,331.86

^a Million gal per day.

^b Surface water.

^c Ground water.

Table EIR 29. Self-supplied water for industrial use in 1975 (Leach 1978).

County	Water withdrawn (Mgal/d) ^a						
	Ground water		Surface water		All water		Water consumed
	Fresh	Saline	Fresh	Saline	Fresh	Saline	
Bay	1 .35	0 .00	0 .00	0 .00	1 .35	0 .00	0 .33
Escambia	44 .75	2 .80	31 .70	0 .24	76 .45	3 .04	18 .02
Franklin	0 .01	0 .00	0 .00	0 .00	0 .01	0 .00	0 .01
Gulf	0 .52	0 .00	33 .20	13 .00	33 .72	13 .00	18 .35
Okaloosa	6 .05	0 .00	0 .00	0 .05	6 .05	0 .00	1 .23
Santa Rosa	17 .67	0 .00	0 .00	0 .00	17 .67	0 .00	4 .83
Walton	0 .41	0 .00	0 .00	0 .00	0 .41	0 .00	0 .27
Region	70 .76	2 .80	63 .90	13 .29	118 .40	16 .04	38 .48
Florida	778 .92	47 .80	160 .70	15 .24	939 .62	63 .04	262 .91

County	Water use by major classification (Mgal/d)			
	Limerock mining	Pulp and paper	Chemical products	Phosphate mining
Bay	0 .00	0 .33	0 .50	0 .00
Escambia	0 .00	24 .00	45 .78	0 .00
Franklin	0 .00	0 .00	0 .00	0 .00
Gulf	0 .00	32 .20	14 .50	0 .00
Okaloosa	0 .00	0 .00	0 .00	0 .00
Santa Rosa	0 .00	0 .00	8 .20	0 .00
Walton	0 .00	0 .00	0 .00	0 .00
Region	0 .00	56 .53	68 .98	0 .00
Florida	87 .97	225 .31	100 .05	270 .33

Continued

Table EIR 29. Concluded.

County	Water use by major classification (Mgal/d)			
	Citrus processing	Food processing	A/Cb	Other
Bay	0.00	0.21	0.00	0.31
Escambia	0.00	0.00	0.24	9.47
Franklin	0.00	0.01	0.00	0.00
Gulf	0.00	0.00	0.00	0.02
Okaloosa	0.00	0.00	0.00	6.05
Santa Rosa	0.00	0.00	0.64	8.83
Walton	0.00	0.41	0.00	0.00
Region	0.00	0.63	0.88	24.68
Florida	69.94	65.77	52.69	130.75

^a Million gal per day.

^b Air conditioning.

Table EIR 30. Water used for thermoelectric power in 1975 (Leach 1978).

County	Cooling water (Mgal/d) ^a				
	Self-supplied		Surface water		Public supply
	Ground water		Fresh	Saline	
	Fresh	Saline	Fresh	Saline	
Bay	0.00	0.00	0.00	228.70	0.00
Escambia	0.00	0.00	265.40	0.00	0.00
Franklin	0.00	0.00	0.00	0.00	0.00
Gulf	0.00	0.00	0.00	0.00	0.00
Okaloosa	0.00	0.00	0.00	0.00	0.00
Santa Rosa	0.00	0.00	0.00	0.00	0.00
Walton	0.00	0.00	0.00	0.00	0.00
Region	0.00	0.00	265.40	228.70	0.00
Florida	51.70	47.50	1,633.00	11,391.50	1.44

County	Other water (Mgal/d)				
	Self-supplied		Public supply	Water consumed	
	Ground fresh	Surface fresh		Fresh	Saline
Bay	0.68	0.00	0.00	0.50	2.10
Escambia	2.52	0.00	0.00	7.70	0.00
Franklin	0.00	0.00	0.00	0.00	0.00
Gulf	0.00	0.00	0.00	0.00	0.00
Okaloosa	0.00	0.00	0.00	0.00	0.00
Santa Rosa	0.00	0.00	0.00	0.00	0.00
Walton	0.00	0.00	0.00	0.00	0.00
Region	3.20	0.00	0.00	8.20	2.10
Florida	8.45	2.39	1.64	36.10	91.10

^a Million gal per day.

Table EIR 31. Water used for public supplies by hydrologic unit in 1975 (Leach 1978).

County	Water withdrawn (Mgal/d) ^a			
	GW ^b	SW ^c	Total	Per capita
Hydrologic unit 0312				
Franklin Unit	0.00 16.93	0.00 1.18	0.00 18.11	0.00 146.00
Hydrologic unit 0313				
Bay	0.00	0.00	0.00	0.00
Franklin	0.99	0.00	0.99	148.00
Gulf	0.03	0.00	0.03	43.00
Unit	3.06	0.01	3.07	108.00
Hydrologic unit 0314				
Bay	1.95	32.59	34.54	418.00
Escambia	27.46	0.34	27.80	145.00
Gulf	0.08	0.64	0.72	122.00
Okaloosa	9.31	0.00	9.31	117.00
Santa Rosa	3.40	0.00	3.40	90.00
Walton	1.08	0.00	1.08	102.00
Unit	44.51	33.57	78.08	185.00
Florida	982.84	162.98	1145.82	168.00

Continued

Table EIR 31. Concluded.

County	Water delivered by uses (Mgal/d)					Water consumed
	Public supply	Agriculture	Industry	Commercial	A/C ^d	
Hydrologic unit 0312						
Franklin Unit	0.00 15.11	0.00 0.01	0.00 0.00	0.00 2.99	0.00 0.00	0.00 5.04
Hydrologic unit 0313						
Bay Franklin Gulf Unit	0.00 0.72 0.03 2.21	0.00 0.00 0.00 0.01	0.00 0.06 0.00 0.18	0.00 0.22 0.00 0.66	0.00 0.00 0.00 0.01	0.00 0.69 0.01 1.27
Hydrologic unit 0314						
Bay Escambia Gulf Okaloosa Santa Rosa Walton Unit Florida	7.84 19.43 0.44 8.53 2.99 0.86 41.21 923.59	0.00 0.06 0.00 0.12 0.06 0.00 0.24	25.56 0.00 0.26 0.00 0.00 0.02 25.91	1.14 8.31 0.01 0.66 0.35 0.18 10.71	0.00 0.00 0.00 0.00 0.00 0.02 0.02	12.49 5.51 0.14 4.16 1.04 0.52 24.39 559.98

^a Million gal per day.

^b Ground water.

^c Surface water.

^d Air conditioning.

Table EIR 32. Rural water used by hydrologic unit in 1975 (Leach 1978).

County	Domestic use (Mgal/d) ^a				Livestock use (Mgal/d)			
	Withdrawn				Withdrawn			
	SW ^b	GW ^c	All	Consumed	SW	GW	All	Consumed
Hydrologic unit 0312								
Franklin	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00
Unit	0.10	5.48	5.58	2.07	0.22	0.41	0.63	0.63
Hydrologic unit 0313								
Bay	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00
Franklin	0.00	0.11	0.11	0.02	0.01	0.00	0.01	0.01
Gulf	0.00	0.27	0.27	0.05	0.05	0.03	0.08	0.08
Unit	0.01	3.51	3.52	1.19	0.52	0.33	0.85	0.85
Hydrologic unit 0314								
Bay	0.00	0.88	0.88	0.18	0.16	0.07	0.23	0.23
Escambia	0.00	3.28	3.28	0.60	0.17	3.02	3.19	3.19
Gulf	0.00	0.16	0.16	0.03	0.03	0.01	0.04	0.04
Okaloosa	0.00	2.21	2.21	0.44	0.11	0.07	0.18	0.18
Santa Rosa	0.00	1.05	1.05	0.21	0.17	0.07	0.24	0.24
Walton	0.74	0.00	0.74	0.59	0.14	0.08	0.22	0.22
Unit	0.74	9.61	10.35	2.93	1.13	3.61	4.74	4.74
Florida	2.05	200.93	202.98	50.33	12.15	50.87	63.02	62.57

Continued

Table EIR 32. Concluded.

County	All uses (Mgal/d)			
	Withdrawn			
	SW	GW	ATT	Consumed
Hydrologic unit 0312				
Franklin Unit	0.00 0.32	0.01 5.89	0.01 6.21	0.01 2.70
Hydrologic unit 0313				
Bay Franklin Gulf Unit	0.00 0.01 0.05 0.53	0.01 0.11 0.30 3.84	0.01 0.12 0.35 4.37	0.00 0.03 0.13 2.04
Hydrologic unit 0314				
Bay Escambia Gulf Okaloosa Santa Rosa Walton Unit	0.16 0.17 0.03 0.11 0.17 0.88 1.87	0.95 6.30 0.17 2.28 1.12 0.08 13.22	1.11 6.47 0.20 2.39 1.29 0.96 15.09	0.41 3.79 0.07 0.62 0.45 0.81 7.67
Florida	14.20	251.80	266.00	112.90

a Million gal per day.

b Surface water.

c Ground water.

Table EIR 33. Water used for irrigation by hydrologic unit in 1975 (Leach 1978).

County	Total water withdrawn (Mgal/d) ^a				
	SW ^b	GW ^c	All	Conveyance loss	Consumptive use
Hydrologic unit 0312					
Franklin Unit	0.00 2.19	0.00 0.67	0.00 2.86	0.00 0.00	0.00 0.47
Hydrologic unit 0313					
Bay Franklin Gulf Unit	0.00 0.00 0.00 2.35	0.00 0.00 0.00 5.77	0.00 0.00 0.00 8.12	0.00 0.00 0.00 0.00	0.00 0.00 0.00 1.88
Hydrologic unit 0314					
Bay Escambia Gulf Okaloosa Santa Rosa Walton Unit	0.00 0.27 0.0 0.34 0.00 0.19 0.96	0.00 0.63 0.22 0.38 0.33 0.59 2.96	0.00 0.90 0.22 0.72 0.33 0.78 3.93	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.18 0.09 0.14 0.07 0.13 0.83
Florida	1,628.52	1,238.96	2,867.48	218.11	1,331.87

^a Million gal per day.

^b Surface water.

^c Ground water.

Table EIR 34. Self supplied water for industrial use by hydrologic unit in 1975
(Leach 1978).

County	Water withdrawn (Mgal/d) ^a						
	Ground water		Surface water		All water		
	Fresh	Saline	Fresh	Saline	Fresh	Saline	Water consumed
Hydrologic unit 0312							
Franklin	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unit	34.85	0.00	0.54	0.00	35.39	0.00	1.75
Hydrologic unit 0313							
Bay	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Franklin	0.01	0.00	0.00	0.00	0.01	0.00	0.01
Gulf	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unit	1.17	0.00	1.83	0.00	3.00	0.00	1.23
Hydrologic unit 0314							
Bay	1.35	0.00	0.00	0.00	1.35	0.00	0.33
Escambia	44.75	2.80	31.70	0.24	76.45	3.04	18.02
Gulf	0.52	0.00	33.20	13.00	33.72	13.00	18.35
Okaloosa	6.05	0.00	0.00	0.00	6.05	0.00	1.23
Santa Rosa	17.67	0.00	0.00	0.00	17.67	0.00	4.83
Walton	0.41	0.00	0.00	0.00	0.41	0.00	0.27
Unit	70.77	2.80	64.90	13.24	135.67	16.04	43.03
Florida	778.92	47.80	160.70	15.24	939.62	63.04	262.91

Continued

Table EIR 34. Continued.

County	Fresh water use by major classification (Mgal/d)			
	Limerock mining	Pulp and paper	Chemical products	Phosphate mining
Hydrologic unit 0312				
Franklin	0.00	0.00	0.00	0.00
Unit	0.00	0.00	0.15	0.00
Hydrologic unit 0313				
Bay	0.00	0.00	0.00	0.00
Franklin	0.00	0.00	0.00	0.00
Gulf	0.00	0.00	0.00	0.00
Unit	0.00	0.00	0.00	0.00
Hydrologic unit 0314				
Bay	0.00	0.33	0.50	0.00
Escambia	0.00	24.00	45.78	0.00
Gulf	0.00	32.20	14.50	0.0
Okaloosa	0.00	0.00	0.00	0.00
Santa Rosa	0.00	0.00	8.20	0.00
Walton	0.00	0.00	0.00	0.00
Unit	0.00	56.53	68.98	0.00
Florida	87.97	225.31	100.05	270.33

Continued

Table EIR 34. Concluded.

County	Water use by major classification (Mgal/d)			
	Citrus processing	Food processing	A/C ^b	Other
Hydrologic unit 0312				
Franklin	0.00	0.00	0.00	0.00
Unit	0.00	0.00	33.61	1.63
Hydrologic unit 0313				
Bay	0.00	0.00	0.00	0.00
Franklin	0.00	0.01	0.00	0.00
Gulf	0.00	0.00	0.00	0.00
Unit	0.00	0.01	0.00	2.99
Hydrologic unit 0314				
Bay	0.00	0.21	0.00	0.31
Escambia	0.00	0.00	0.24	9.47
Gulf	0.00	0.00	0.00	0.02
Okaloosa	0.00	0.00	0.00	6.05
Santa Rosa	0.00	0.00	0.64	8.83
Walton	0.00	0.41	0.00	0.00
Unit	0.00	0.62	0.88	24.70
Florida	69.94	65.77	52.69	130.75

^a Million gal per day.

^b Air conditioning.

Table EIR 35. Water used for theromelectric power by hydrologic unit in 1975
(Leach 1978).

County	Cooling water (Mgal/d) ^a				
	Self-supplied				
	Ground water	Surface water	Fresh	Saline	Public supply
Hydrologic unit 0312					
Franklin	0.00	0.00	0.00	0.00	0.00
Unit	1.00	0.00	104.60	0.00	0.00
Hydrologic unit 0313					
Bay	0.00	0.00	0.00	0.00	0.00
Franklin	0.00	0.00	0.00	0.00	0.00
Gulf	0.00	0.00	0.00	0.00	0.00
Unit	0.00	0.00	120.10	0.00	0.00
Hydrologic unit 0314					
Bay	0.00	0.00	0.00	228.70	0.00
Escambia	0.00	0.00	265.40	0.00	0.00
Gulf	0.00	0.00	0.00	0.00	0.00
Okaloosa	0.00	0.00	0.00	0.00	0.00
Santa Rosa	0.00	0.00	0.00	0.00	0.00
Walton	0.00	0.00	0.00	0.00	0.00
Unit	0.00	0.00	265.40	228.70	0.00
Florida	51.70	47.50	1,633.00	11,391.50	1.44

Continued

Table EIR 35 . Concluded .

County	Other water (Mgal/d)				
	Self-supplied		Public supply	Water consumed	
	Ground fresh	Surface fresh		Fresh	Saline
Hydrologic unit 0312					
Franklin	0.00	0.00	0.00	0.00	0.00
Unit	0.46	0.00	0.70	0.60	0.00
Hydrologic unit 0313					
Bay	0.00	0.00	0.00	0.00	0.00
Franklin	0.00	0.00	0.00	0.00	0.00
Gulf	0.00	0.00	0.00	0.00	0.00
Unit	0.00	0.32	0.00	0.80	0.00
Hydrologic unit 0314					
Bay	0.68	0.00	0.00	0.50	2.10
Escambia	2.52	0.00	0.00	7.20	0.00
Gulf	0.00	0.00	0.00	0.00	0.00
Okaloosa	0.00	0.00	0.00	0.00	0.00
Santa Rosa	0.00	0.00	0.00	0.00	0.00
Walton	0.00	0.00	0.00	0.00	0.00
Unit	3.20	0.00	0.00	8.20	2.10
Florida	8.45	2.39	1.64	36.10	91.10

^a Million gal per day.

Table EIR 36. Water used for public supplies in 1977 (Leach and Healy 1980).

County	Water withdrawn (Mgal/d) ^a			
	GW ^b	SW ^c	Total	Per capita
Bay	2.91	36.05	38.96	493
Escambia	30.48	0.00	30.48	162
Franklin	1.11	0.00	1.11	176
Gulf	0.16	0.72	0.88	160
Okaloosa	12.79	0.00	12.79	165
Santa Rosa	4.39	0.00	4.39	108
Walton	0.99	0.00	0.99	101
Region	52.83	36.77	89.60	N.D.
Florida	1,059.06	172.82	1,231.88	171

County	Water delivered by uses (Mgal/d)				
	Public supply	Agriculture	Industry	Commercial	A/C ^d
Bay	9.30	0.00	26.76	2.90	0.00
Escambia	23.81	0.07	1.25	5.35	0.00
Franklin	0.81	0.00	0.06	0.24	0.00
Gulf	0.54	0.00	0.31	0.03	0.00
Okaloosa	11.44	0.13	0.00	1.22	0.00
Santa Rosa	3.79	0.11	0.00	0.49	0.00
Walton	0.78	0.00	0.02	0.17	0.01
Region	50.47	0.31	28.40	9.67	0.01
Florida	960.82	23.84	92.88	124.67	29.67
					508.45

^a Million gal per day.

^b Ground water.

^c Surface water.

^d Air conditioning.

Table EIR 37. Rural water use in 1977 (Leach and Healy 1980).

County	Domestic use (Mgal/d) ^a				Livestock use (Mgal/d)			
	Withdrawn			Consumed	Withdrawn			Consumed
	SWb	GWC	ATT		SW	GW	ATT	
Bay	0.00	1.76	1.76	0.44	0.01	0.02	0.03	0.03
Escambia	0.00	4.18	4.18	0.92	0.04	0.15	0.19	0.19
Franklin	0.00	0.20	0.20	0.05	0.01	0.01	0.02	0.02
Gulf	0.00	0.56	0.56	0.14	0.04	0.02	0.06	0.06
Okaloosa	0.00	3.15	3.15	0.79	0.12	0.03	0.15	0.15
Santa Rosa	0.00	1.18	1.18	0.30	0.08	0.06	0.14	0.14
Walton	0.00	0.95	0.95	0.24	0.10	0.07	0.17	0.17
Region	0.00	11.98	11.98	2.88	0.40	0.36	0.76	0.76
Florida	1.01	191.81	192.82	50.26	20.07	44.00	64.07	64.07

County	All uses (Mgal/d)			
	Withdrawn			Consumed
	SW	GW	ATT	
Bay	0.01	1.78	1.79	0.47
Escambia	0.04	4.33	4.37	1.11
Franklin	0.01	0.21	0.22	0.07
Gulf	0.04	0.58	0.62	0.20
Okaloosa	0.12	3.18	3.30	0.94
Santa Rosa	0.08	1.24	1.32	0.44
Walton	0.10	1.02	1.12	0.41
Region	0.40	12.34	12.74	3.64
Florida	21.08	235.81	256.89	114.33

^a Million gal per day.

^b Surface water.

^c Ground water.

Table EIR 38. Water used for irrigation in 1977 (Leach and Healy 1980).

County	Total water withdrawn (Mgal/day) ^a				
	SW ^b	GW ^c	All	Conveyance loss	Consumptive use
Bay	0.00	0.38	0.38	0.00	0.08
Escambia	0.35	0.62	0.97	0.00	0.19
Franklin	0.00	0.00	0.00	0.00	0.00
Gulf	0.00	0.22	0.22	0.00	0.09
Okaloosa	0.45	0.31	0.76	0.00	0.15
Santa Rosa	0.13	1.50	1.63	0.00	0.33
Walton	0.93	3.68	4.62	0.00	0.92
Region	1.86	6.71	8.58	0.00	1.76
Florida	1,449.29	1,423.25	2,872.55	191.74	1,255.23

^a Million gal per day.

^b Surface water.

^c Ground water.

Table EIR 39. Self-supplied water for industrial use for 1977 (Leach and Healy 1978).

County	Water withdrawn (Mgal/d) ^a						Water consumed	
	Ground water		Surface water		All water			
	Fresh	Saline	Fresh	Saline	Fresh	Saline		
Bay	1.32	0.00	0.00	0.00	1.32	0.00	0.97	
Escambia	47.36	1.60	25.60	0.24	72.96	1.84	21.96	
Franklin	0.01	0.00	0.00	0.00	0.01	0.00	0.01	
Gulf	0.52	0.00	33.20	13.00	33.72	13.00	7.11	
Okaloosa	5.45	0.00	0.00	0.00	5.45	0.00	1.16	
Santa Rosa	18.99	0.00	0.00	0.00	18.99	0.00	15.92	
Walton	0.80	0.00	0.00	0.00	0.80	0.00	0.27	
Region	74.45	1.60	58.80	13.24	133.34	14.84	47.49	
Florida	733.06	58.25	189.23	15.24	922.28	73.49	294.65	

County	Fresh water use by major classification (Mgal/d)			
	Limerock mining	Pulp and paper	Chemical products	Phosphate mining
Bay	0.00	0.12	0.72	0.00
Escambia	0.00	24.86	39.66	0.00
Franklin	0.00	0.00	0.00	0.00
Gulf	0.00	31.70	15.00	0.00
Okaloosa	0.00	0.00	0.00	0.00
Santa Rosa	0.00	0.00	8.36	0.00
Walton	0.00	0.00	0.00	0.00
Region	0.00	56.68	63.74	0.00
Florida	49.49	225.41	175.85	181.22

Continued

Table EIR 39. Concluded.

County	Fresh water use by major classification (Mgal/d) ^a			
	Citrus processing	Food processing	A/C ^b	Other
Bay	0.00	0.21	0.00	0.27
Escambia	0.00	0.00	0.24	10.04
Franklin	0.00	0.10	0.00	0.00
Gulf	0.00	0.00	0.00	0.20
Okaloosa	0.00	0.00	0.00	5.45
Santa Rosa	0.00	0.00	0.64	9.99
Walton	0.00	0.80	0.00	0.00
Region	0.00	1.11	0.88	25.95
Florida	59.91	90.60	55.27	158.01

^a Million gal per day.

^b Air conditioning.

Table EIR 40. Water used for thermoelectric power in 1977 (Leach and Healy 1980).

County	Cooling water (Mgal/d) ^a					
	Self-supplied		Surface water		Public supply	
	Ground water		Fresh	Saline	Fresh	Saline
Bay	0.00	0.00	0.00	227.80	0.00	
Escambia	0.00	0.00	249.70	0.00	0.00	
Franklin	0.00	0.00	0.00	0.00	0.00	
Gulf	0.00	0.00	0.00	0.00	0.00	
Okaloosa	0.00	0.00	0.00	0.00	0.00	
Santa Rosa	0.00	0.00	0.00	0.00	0.00	
Walton	0.00	0.00	0.00	0.00	0.00	
Region	0.00	0.00	249.70	227.80	0.00	
Florida	46.40	49.30	1,309.90	14,688.90	1.54	

County	Other water (Mgal/d)					
	Self-supplied		Public supply		Water consumed	
	Ground fresh	Surface fresh			Fresh	Saline
Bay	0.70	0.00	0.00	0.00	0.50	2.10
Escambia	2.50	0.00	0.00	0.00	2.10	0.00
Franklin	0.00	0.00	0.00	0.00	0.00	0.00
Gulf	0.00	0.00	0.00	0.00	0.00	0.00
Okaloosa	0.00	0.00	0.00	0.00	0.00	0.00
Santa Rosa	0.00	0.00	0.00	0.00	0.00	0.00
Walton	0.00	0.00	0.00	0.00	0.00	0.00
Region	3.20	0.00	0.00	0.00	2.70	2.10
Florida	8.82	2.15	1.12	32.00	137.60	

^a Million gal per day.

Table EIR 41. Water used for public supplies by hydrologic unit in 1977 (Leach and Healy 1980).

County	Water withdrawn (Mgal/d) ^a			
	GW ^b	SW ^c	Total	Per capita
Hydrologic unit 0312				
Franklin Unit	0.00 18.37	0.00 1.48	0.00 19.85	0.00 174.00
Hydrologic unit 0313				
Bay	0.00	0.00	0.00	0.00
Franklin	1.11	0.00	1.11	176.00
Gulf	0.05	0.00	0.05	71.00
Unit	3.51	0.00	3.51	128.00
Hydrologic unit 0314				
Bay	2.91	36.05	38.96	493.00
Escambia	30.48	0.00	30.48	162.00
Gulf	0.11	0.72	0.83	173.00
Okaloosa	12.79	0.00	12.79	165.00
Santa Rosa	4.39	0.00	4.39	108.00
Walton	0.99	0.00	0.99	101.00
Unit	53.49	36.77	90.26	218.00
Florida	1,058.99	170.85	1,229.84	172.00

Continued

Table EIR 41. Concluded.

County	Water delivered by uses (Mgal/d)					Water consumed
	Public supply	Agriculture	Industry	Commercial	A/C ^d	
Hydrologic unit 0312						
Franklin	0.00	0.00	0.00	0.00	0.00	0.00
Unit	16.46	0.01	0.08	3.31	0.00	5.96
Hydrologic unit 0313						
Bay	0.00	0.00	0.00	0.00	0.00	0.00
Franklin	0.81	0.00	0.06	0.24	0.00	0.22
Gulf	0.05	0.00	0.00	0.00	0.00	0.01
Unit	2.78	0.03	0.07	0.61	0.01	0.97
Hydrologic unit 0314						
Bay	9.30	0.00	26.76	2.90	0.00	13.91
Escambia	23.81	0.07	1.25	5.35	0.00	15.44
Gulf	0.49	0.00	0.31	0.03	0.00	0.17
Okaloosa	11.44	0.13	0.00	1.22	0.00	4.53
Santa Rosa	3.79	0.11	0.00	0.49	0.00	1.27
Walton	0.78	0.00	0.02	0.17	0.01	0.38
Unit	51.20	0.35	28.38	10.31	0.01	36.20
Florida	959.19	23.84	92.88	124.26	29.67	507.49

^a Million gal per day.

^b Ground water.

^c Surface water.

^d Air conditioning.

Table EIR 42. Rural water used by hydrologic unit in 1977 (Leach and Healy 1980).

County	Domestic use (Mgal/d) ^a					Livestock use (Mgal/d)			
	Withdrawn				Consumed	Withdrawn			
	SW ^b	GW ^c	A11	Consumed		SW	GW	A11	Consumed
Hydrologic unit 0312									
Franklin	0.00	0.02	0.02	0.01		0.00	0.00	0.00	0.00
Unit	0.10	6.84	6.94	1.70		0.23	0.18	0.41	0.41
Hydrologic unit 0313									
Bay	0.00	0.02	0.02	0.01		0.00	0.00	0.00	0.00
Franklin	0.00	0.18	0.18	0.04		0.01	0.01	0.02	0.02
Gulf	0.00	0.35	0.35	0.09		0.03	0.01	0.04	0.04
Unit	0.01	3.86	3.87	0.97		0.54	0.24	0.78	0.78
Hydrologic unit 0314									
Bay	0.00	1.74	1.74	0.43		0.01	0.02	0.03	0.03
Escambia	0.00	4.18	4.18	0.92		0.04	0.15	0.19	0.19
Gulf	0.00	0.21	0.21	0.05		0.01	0.01	0.02	0.02
Okaloosa	0.00	3.15	3.15	0.79		0.12	0.03	0.15	0.15
Santa Rosa	0.00	1.18	1.18	0.30		0.08	0.06	0.14	0.14
Walton	0.00	0.95	0.95	0.24		0.10	0.07	0.17	0.17
Unit	0.00	13.90	13.90	3.36		0.70	0.72	1.42	1.42
Florida	1.01	191.81	192.82	50.26		20.07	44.00	64.07	64.07

Continued

Table EIR 42. Concluded.

County	Withdrawn			Consumed
	SW	GW	ATI	
Hydrologic unit 0312				
Franklin Unit	0.00 0.33	0.02 7.02	0.02 7.35	0.01 2.11
Hydrologic unit 0313				
Bay Franklin Gulf Unit	0.00 0.01 0.03 0.55	0.02 0.19 0.36 4.10	0.02 0.20 0.39 4.65	0.01 0.06 0.13 1.75
Hydrologic unit 0314				
Bay Escambia Gulf Okaloosa Santa Rosa Walton Unit	0.01 0.04 0.01 0.12 0.08 0.10 0.70	1.76 4.33 0.22 3.18 1.24 1.02 14.62	1.77 4.37 0.23 3.30 1.32 1.12 15.32	0.46 1.11 0.07 0.94 0.44 0.41 4.78
Florida	21.08	235.81	256.89	114.33

^a Million gal per day.

^b Surface water.

^c Ground water.

Table EIR 43. Water used for irrigation by hydrologic unit in 1977 (Leach and Healy 1980).

County	Total water withdrawn (Mgal/d) ^a			Conveyance loss	Consumptive use
	SW ^b	GW ^c	All		
Hydrologic unit 0312					
Franklin	0.00	0.00	0.00	0.00	0.00
Unit	3.80	0.90	4.70	0.00	0.95
Hydrologic unit 0313					
Bay	0.00	0.00	0.00	0.00	0.00
Franklin	0.00	0.00	0.00	0.00	0.00
Gulf	0.00	0.00	0.00	0.00	0.00
Unit	3.25	4.96	8.20	0.00	1.60
Hydrologic unit 0314					
Bay	0.00	0.38	0.38	0.00	0.08
Escambia	0.35	0.62	0.97	0.00	0.19
Gulf	0.00	0.22	0.22	0.00	0.09
Okaloosa	0.45	0.31	0.76	0.00	0.15
Santa Rosa	0.13	1.50	1.63	0.00	0.33
Walton	0.93	3.68	4.62	0.00	0.92
Unit	2.15	7.36	9.51	0.01	1.93
Florida	1,449.30	1,423.25	2,872.55	191.74	1,255.23

^a Million gal per day.

^b Surface water.

^c Ground water.

Table EIR 44. Self-supplied water for industrial use by hydrologic unit in 1977
 (Leach and Healy 1980).

County	Water withdrawn (Mgal/d) ^a						
	Ground water		Surface water		All water		Water consumed
	Fresh	Saline	Fresh	Saline	Fresh	Saline	
Hydrologic unit 0312							
Franklin	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unit	31.82	0.00	0.10	0.00	31.92	0.00	1.74
Hydrologic unit 0313							
Bay	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Franklin	0.01	0.00	0.00	0.00	0.01	0.00	0.01
Gulf	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unit	1.17	0.00	1.85	0.00	3.02	0.00	1.41
Hydrologic unit 0314							
Bay	1.32	0.00	0.00	0.00	1.32	0.00	0.97
Escambia	47.36	1.60	25.60	0.24	72.96	1.84	21.96
Gulf	0.52	0.00	33.20	13.00	33.72	13.00	7.11
Okaloosa	5.45	0.00	0.00	0.00	5.45	0.00	1.16
Santa Rosa	18.99	0.00	0.00	0.00	18.99	0.00	15.92
Walton	0.80	0.00	0.00	0.00	0.80	0.00	0.27
Unit	74.46	1.60	58.80	13.24	133.26	14.84	47.39
Florida	733.06	58.25	189.23	15.24	922.29	73.49	294.65

Continued

Table EIR 44 . Continued .

County	Water use by major classification (Mgal/d)			
	Limerock mining	Pulp and paper	Chemical products	Phosphate mining
Hydrologic unit 0312				
Franklin	0.00	0.00	0.00	0.00
Unit	0.00	0.00	0.15	0.00
Hydrologic unit 0313				
Bay	0.00	0.00	0.00	0.00
Franklin	0.00	0.00	0.00	0.00
Gulf	0.00	0.00	0.00	0.00
Unit	0.00	0.00	0.00	0.00
Hydrologic unit 0314				
Bay	0.00	0.12	0.72	0.00
Escambia	0.00	24.86	39.66	0.00
Gulf	0.00	31.70	15.00	0.00
Okaloosa	0.00	0.00	0.00	0.00
Santa Rosa	0.00	0.00	8.36	0.00
Walton	0.00	0.00	0.00	0.00
Unit	0.00	56.68	63.74	0.00
Florida	49.49	225.41	175.85	181.22

Continued

Table EIR 44. Concluded.

County	Water use by major classification (Mgal/d)			
	Citrus processing	Food processing	A/C ^b	Other
Hydrologic unit 0312				
Franklin	0.00	0.00	0.00	0.00
Unit	0.00	0.00	29.44	2.33
Hydrologic unit 0313				
Bay	0.00	0.00	0.00	0.00
Franklin	0.00	0.01	0.00	0.00
Gulf	0.00	0.00	0.00	0.00
Unit	0.00	0.01	0.00	3.01
Hydrologic unit 0314				
Bay	0.00	0.21	0.00	0.27
Escambia	0.00	0.00	0.24	10.04
Gulf	0.00	0.00	0.00	0.02
Okaloosa	0.00	0.00	0.00	5.45
Santa Rosa	0.00	0.00	0.64	9.99
Walton	0.00	0.80	0.00	0.00
Unit	0.00	1.01	0.88	25.79
Florida	59.91	90.60	55.27	158.01

^a Million gal per day.

^b Air conditioning.

Table EIR 45. Water used for thermoelectric power by hydrologic unit in 1977
 (Leach and Healy 1980).

County	Cooling water (Mgal/d) ^a					
	Self-supplied		Surface water		Public supply	
	Ground water	Fresh	Saline	Fresh	Saline	
Hydrologic unit 0312						
Franklin	0.00	0.00	0.00	0.00	0.00	0.00
Unit	1.90	0.00	93.30	0.00	0.00	0.00
Hydrologic unit 0313						
Bay	0.00	0.00	0.00	0.00	0.00	0.00
Franklin	0.00	0.00	0.00	0.00	0.00	0.00
Gulf	0.00	0.00	0.00	0.00	0.00	0.00
Unit	0.30	0.00	109.20	0.00	0.00	0.00
Hydrologic unit 0314						
Bay	0.00	0.00	0.00	227.80	0.00	0.00
Escambia	0.00	0.00	249.70	0.00	0.00	0.00
Gulf	0.00	0.00	0.00	0.00	0.00	0.00
Okaloosa	0.00	0.00	0.00	0.00	0.00	0.00
Santa Rosa	0.00	0.00	0.00	0.00	0.00	0.00
Walton	0.00	0.00	0.00	0.00	0.00	0.00
Unit	0.00	0.00	249.70	227.80	0.00	0.00
Florida	46.40	49.30	1,309.90	14,688.90	0.00	1.54

Continued

Table EIR 45. Concluded.

County	Other water (Mgal/d)				
	Self-supplied		Public supply	Water consumed	
	Ground fresh	Surface fresh		Fresh	Saline
Hydrologic unit 0312					
Franklin	0.00	0.00	0.00	0.00	0.00
Unit	0.42	0.00	0.00	1.30	0.00
Hydrologic unit 0313					
Bay	0.00	0.00	0.00	0.00	0.00
Franklin	0.00	0.00	0.00	0.00	0.00
Gulf	0.00	0.00	0.00	0.00	0.00
Unit	0.02	0.00	0.00	0.60	0.00
Hydrologic unit 0314					
Bay	0.70	0.00	0.00	0.50	2.10
Escambia	2.50	0.00	0.00	2.10	0.00
Gulf	0.00	0.00	0.00	0.00	0.00
Okaloosa	0.00	0.00	0.00	0.00	0.00
Santa Rosa	0.00	0.00	0.00	0.00	0.00
Walton	0.00	0.00	0.00	0.00	0.00
Unit	3.20	0.00	0.00	2.60	2.10
Florida	8.82	2.15	1.12	32.00	137.60

^a Million gal per day.

Table EIR 46. Endangered and threatened species in Bay County (Miller 1980).

<u>Common Name</u>	<u>Scientific Name</u>
<u>Threatened Mammals</u>	
Florida black bear	<u><i>Ursus americanus floridanus</i></u>
<u>Endangered Birds</u>	
Red-cockaded woodpecker	<u><i>Picoides borealis</i></u>
<u>Threatened Reptiles</u>	
Gopher tortoise	<u><i>Gopherus polyphemus</i></u>
<u>Threatened Amphibians</u>	
Florida gopher frog	<u><i>Rana areolata aesopus</i></u>
<u>Endangered Plants</u>	
Smooth-barked St. John's-wort	<u><i>Hypericum lissophloeus</i></u>
White birds-in-a-nest	<u><i>Macbridea alba</i></u>
Giant water-dropwort	<u><i>Oxypolis greenmannii</i></u>
Large-leaved jointweed	<u><i>Polygonella macrophylla</i></u>
<u>Threatened Plants</u>	
Wiregrass gentian	<u><i>Gentiana pennelliana</i></u>
Mock pennyroyal	<u><i>Hedeoma graveolens</i></u>
Ashe's magnolia	<u><i>Magnolia ashei</i></u>
Orange azalea	<u><i>Rhododendron austrinum</i></u>
White-top pitcherplant	<u><i>Sarracenia leucophylla</i></u>
Jackson-vine	<u><i>Smilax smallii</i></u>

Table EIR 47. Endangered and threatened species in Escambia County (Miller 1980).

<u>Common Name</u>	<u>Scientific Name</u>
<u>Threatened Mammals</u>	
Florida black bear	<u><i>Ursus americanus floridanus</i></u>
<u>Threatened Reptiles</u>	
Gopher tortoise	<u><i>Gopherus polyphemus</i></u>
<u>Endangered Plants</u>	
Panhandle lily	<u><i>Lilium iridollae</i></u>
Large-leaved jointweed	<u><i>Polygonella macrophylla</i></u>
<u>Threatened Plants</u>	
Orange azalea	<u><i>Rhododendron austrinum</i></u>
White-top pitcherplant	<u><i>Sarracenia leucophylla</i></u>
Jackson-vine	<u><i>Smilax smallii</i></u>
Silky camellia	<u><i>Stewartia malacodendron</i></u>

Table EIR 48. Listing of endangered and threatened species in Franklin County
 (Miller 1980).

<u>Common Name</u>	<u>Scientific Name</u>
<u>Threatened Mammals</u>	
Florida black bear	<u><i>Ursus americanus floridanus</i></u>
<u>Endangered Birds</u>	
Red-cockaded woodpecker	<u><i>Picoides borealis</i></u>
<u>Threatened Reptiles</u>	
Gopher tortoise	<u><i>Gopherus polyphemus</i></u>
<u>Threatened Amphibians</u>	
Florida gopher frog	<u><i>Rana areolata aesopus</i></u>
<u>Endangered Plants</u>	
Harper's beauty	<u><i>Harperocallis flava</i></u>
White birds-in-a-nest	<u><i>Macbridea alba</i></u>
Florida beargrass	<u><i>Nolina atropurpurea</i></u>
Grass-of-parnassus	<u><i>Parnassia grandiflora</i></u>
Large-leaved jointweed	<u><i>Polygonella macrophylla</i></u>
<u>Threatened Plants</u>	
Apalachicola rosemary	<u><i>Conradina glabra</i></u>
Wiregrass gentian	<u><i>Gentiana pennelliana</i></u>
Godfrey's blazing-star	<u><i>Liatris provincialis</i></u>
White-top pitcherplant	<u><i>Sarracenia leucophylla</i></u>
Jackson-vine	<u><i>Smilax smallii</i></u>

Table EIR 49. Listing of endangered and threatened species in Gulf County
(Miller 1980).

<u>Common Name</u>	<u>Scientific Name</u>
<u>Threatened Mammals</u>	
Florida black bear	<u>Ursus americanus floridanus</u>
<u>Threatened Birds</u>	
Florida sandhill crane	<u>Grus canadensis pratensis</u>
Least tern	<u>Sterna albifrons</u>
<u>Threatened Reptiles</u>	
Gopher tortoise	<u>Gopherus polyphemus</u>
<u>Endangered Plants</u>	
White birds-in-a-nest	<u>Macbridea alba</u>
Giant water-dropwort	<u>Oxypolis greenmanii</u>
Chapman's rhododendron	<u>Rhododendron chapmanii</u>
<u>Threatened Plants</u>	
Wiregrass gentian	<u>Gentiana pennelliana</u>
Godfrey's blazing-star	<u>Liatris provincialis</u>
Orange azalea	<u>Rhododendron austrinum</u>
White-top pitcherplant	<u>Sarracenia leucophylla</u>
Jackson-vine	<u>Smilax smallii</u>
Chapman's crownbeard	<u>Verbesina chapmanii</u>

Table EIR 50. Listing of endangered and threatened species in Okaloosa County
(Miller 1980).

<u>Common Name</u>	<u>Scientific Name</u>
<u>Threatened Mammals</u>	
Florida black bear	<u>Ursus americanus floridanus</u>
<u>Endangered Birds</u>	
Red-cockaded woodpecker	<u>Picoides borealis</u>
<u>Threatened Reptiles</u>	
Gopher tortoise	<u>Gopherus polyphemus</u>
<u>Endangered Amphibians</u>	
Pine barrens treefrog	<u>Hyla andersonii</u>
<u>Endangered Plants</u>	
Panhandle lily	<u>Lilium iridollae</u>
<u>Threatened Plants</u>	
Hairy wild-indigo	<u>Baptisia hirsuta</u>
Ashe's magnolia	<u>Magnolia ashei</u>
Orange azalea	<u>Rhododendron austrinum</u>
White-top pitcherplant	<u>Sarracenia leucophylla</u>
Jackson-vine	<u>Smilax smallii</u>
Silky camellia	<u>Stewartia malacodendron</u>

Table EIR 51. Listing of endangered and threatened species in Santa Rosa County
(Miller 1980).

<u>Common Name</u>	<u>Scientific Name</u>
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Threatened Mammals

Florida black bear	<u>Ursus americanus floridanus</u>
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Endangered Birds

Red-cockaded woodpecker	<u>Picoides borealis</u>
-------------------------	--------------------------

Threatened Birds

Least tern	<u>Sterna albifrons</u>
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Threatened Reptiles

Gopher tortoise	<u>Gopherus polyphemus</u>
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Endangered Plants

Panhandle lily	<u>Lilium iridollae</u>
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Threatened Plants

Hairy wild-indigo	<u>Baptisia hirsuta</u>
Ashe's magnolia	<u>Magnolia ashei</u>
Orange azalea	<u>Rhododendron austrinum</u>
White-top pitcherplant	<u>Sarracenia leucophylla</u>
Jackson-vine	<u>Smilax smallii</u>
Silky camellia	<u>Stewartia malacodendron</u>

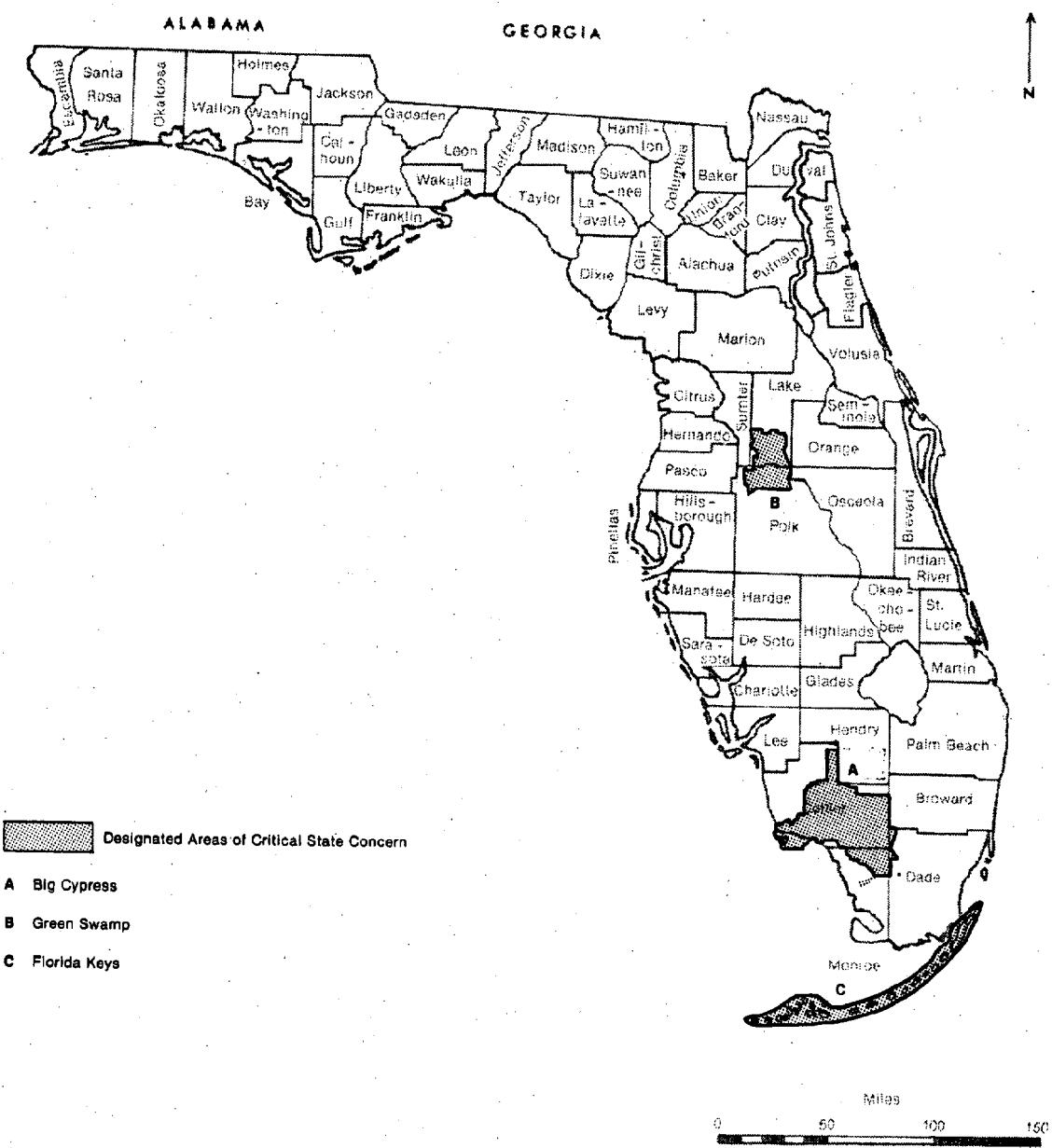


Figure 25. Areas of Critical State Concern (Florida Power and Light Co. 1979).

Table EIR 52. Listing of endangered and threatened species in Walton County
(Miller 1980).

<u>Common Name</u>	<u>Scientific Name</u>
<u>Endangered Plants</u>	
Panhandle lily	<u>Lilium iridollae</u>
Large-leaved jointweed	<u>Polygonella macrophylla</u>
<u>Threatened Plants</u>	
Hairy wild-indigo	<u>Baptisia hirsuta</u>
Wiregrass gentian	<u>Gentiana pennelliana</u>
Ashe's magnolia	<u>Magnolia ashei</u>
Needle palm	<u>Rhipidophyllum hystrix</u>
Orange azalea	<u>Rhododendron austrinum</u>
White-top pitcherplant	<u>Sarracenia leucophylla</u>
Jackson-vine	<u>Smilax smallii</u>
Silky camellia	<u>Stewartia malacodendron</u>
Chapman's crownbeard	<u>Verbesina chapmanii</u>

Table EIR 53. Identification of beach and river erosion problems (Florida Resources and Environmental Analysis Center 1978).

Site	Location	Description
Beacon Hill	Gulf County	2.5 mi serious erosion
Carrabelle Beach	Franklin County	16.0 mi serious erosion
Choctawhatchee Bay	Walton County	Estuarine beach erosion
Crooked Island	Bay County	6.0 mi severe beach erosion
Dog Island	Center of Island, Franklin County	2.2 mi severe erosion
East Point	Franklin County	6.0 mi of erosion
Fort Pickens National Park	Western Santa Rosa Island, Escambia County	3.0 mi severe erosion
Gulf Breeze Peninsula	Santa Rosa County	Beach erosion between Fair Point and the mouth of Little East Bay
Inerarity Point	Escambia County	Beach erosion along S. Shore of peninsula
Lighthouse Point	Southern tip of SR-370, Franklin County	Severe beach erosion
Panama City Beach	Panama City, Bay County	18.3 mi serious erosion
Shell Island	Bay County	6.0 mi of severe erosion
Shell Point	Wakulla County	0.5 mi erosion
St. George Island	Franklin County	6.1 mi severe erosion, center of island
St. Joseph Spit	Gulf County	Serious erosion N. of Cape San Blas
St. Theresa Beach	Franklin County	1.0 mi severe erosion

Continued

Table EIR 53. Concluded.

Site	Location	Description
Carpenter's Creek Ochlockonee River	Pensacola, Escambia County Ochlockonee State Park, Franklin and Wakulla Counties	Erosion of stream bank Boat wakes, wind and tides causing severe erosion

Table EIR 54. Destruction of natural vegetation and habitat (Florida Resources and Environmental Analysis Center 1978).

Site	Location	Description
Avalon Beach, Coastal Marsh	Garcon Point, Santa Rosa County Bay County Pensacola, Escambia County Bay County Walton County	Marsh ecosystem undergoing development Systematic clearcutting of natural vegetation Filling of swamp, loss of cypress and silverbell trees Systematic clearcutting of natural vegetation Clearcutting of natural vegetation, replacement by pine Clearcutting of natural vegetation, severe erosion
Burnt Mill Creek Carpenters Creek	Okaloosa-Walton, County Line Escambia County Gulf County	Development, dune destruction, loss of habitat Upper reaches of swamp being ditched, drained, and clearcut, reduction of tupelo trees, having adverse impacts upon bee/honey industry
Crooked Creek East River Island	I-10	Drainage and clearing of wetlands, loss of habitat
Inerarity Island Indian Swamp	Gulf County	Development, dune destruction, loss of habitat ² 300-mi ² swamp undergoing extensive drainage, channelization and conversion to pines and/or pastureland
Panther Swamp	Navarre to Fort Pickens, Santa Rosa County Franklin and S. Liberty Counties Walton County	Clearcutting of swamp forest and hardwood- pine mix, replaced with slash pine
Santa Rosa Island		
Tates Hell Swamp		
Unnamed		

Table EIR 55. Aquatic plant problems and/or eutrophication (Florida Resources and Environmental Analysis Center 1978).

Site	Location	Description
Deer Point Lake, coastal marsh	Near Panama City, Bay County 9 mi N. of Baker on SR-189, Okaloosa County	High nitrate concentrations, low D.O. ^a . due to aquatic plants and algae growth 58-acre lake with aquatic weed problems
Karick Lake	Santa Rosa County	Over nutrification
Lake Locklin		

^a Dissolved oxygen.

Table EIR 56 Summary of U.S. Army Corps of Engineers projects in Northwest Florida (Northwest Florida Water Management District 1980; U.S. Army Corps of Engineers 1981).

Location	Description	Date completed	Cost/remarks
Grand Lagoon, Panama City	Channels from Grand Lagoon to St. Andrews Bay	1972	\$128,000
Gulf Intracoastal Water- way, Carrabelle to Mobile Bay	12-ft x 125-ft channel from Carrabelle, FL. to Mobile Bay, AL.	1969	\$6,434,694
Gulf Intracoastal Water- way, Carrabelle to St. Marks	12-ft x 125-ft channel from Carrabelle via Carrabelle, Crooked and Ochlock- onee Rivers, and Ochlockonee and Apalachee bays	N.D.	No construction has been under- taken, deferred for restudy
LaGrange Bayou	12-ft x 100-ft channel 6 mi long connecting Choctawhatchee Bay and highway bridge across Four Mile Creek (Freeport)	1963	\$289,496
Panacea Harbor	8-ft x 100-ft channel .7 mi long connecting City of Panacea to Apalachee Bay	1963	\$129,383
Panama City Harbor	Several channels with turning basins, anchorage basin, cut through Shell Island and Jetties	1949 (overall project) 1961 (jetties rebuilt)	\$485,189
Pensacola Harbor	Several channels connecting Intra- coastal Waterway, Gulf of Mexico, Lower Pensacola Bay, Muscogee Wharf and Bayou Chico	1965	\$875,005

Continued

Table EIR 56. Continued.

Location	Description	Date completed	Cost/remarks
Port St. Joe Harbor	Several channels with turning basin connecting City of Port St. Joe and Gulf of Mexico	1962	\$1,980,862
St. Marks River	Several channels with turning basin connecting Newport, St. Marks and the Gulf of Mexico, total length 12 mi	1964	\$1,710,809
Apalachicola Bay	Channels connecting Intracoastal Waterway, Apalachicola and Gulf of Mexico via cut through St. George Island. Also, breakwaters near mouth of Apalachicola River	1959 (overall project) 1975 (breakwaters)	\$964,400
Jim Woodruff Lock and Dam	Lock and dam and reservoir with power generating facility	1957	\$49,306,758
Blackwater River	9-ft x 100-ft channel 12 mi long connecting City of Milton and East Bay	1916	\$36,650
Carrabelle Bay and Harbor	Several different sizes of channels totaling 13.6 mi connecting Crooked River, City of Carrabelle and Gulf of Mexico	1965	\$481,627
Choctawhatchee River	Maintenance of navigable channel from Geneva, AL to mouth of Choctawhatchee River, 96 mi	Authorized June 1874 Completed	\$171,885

Continued

Table EIR 56. Concluded.

Location	Description	Date completed	Cost/remarks
East Pass Channel Okaloosa County	12-ft x 180-ft channel from Choctawhatchee Bay to the Gulf of Mexico with jetties	1951 (channel) 1969 (jetties)	\$916,715
Escambia and Conecuh Rivers	Channels from Andulusia, AL to mouth of Escambia River	1882 (from state line to mile 7) 1960 (below mile 7)	\$137,324
Holmes Creek	Navigable channel 25 mi long from the mouth to Vernon, FL	no date (inactive)	\$8,562
Upper Chipola River	Navigable channel 55 mi long from the foot of Dead Lake. to Marianna, FL	75% complete	\$36,781
Apalachicola River	A continuous 9-ft x 100-ft channel from the intersection of the Gulf Intracoastal Waterway to the confluence of the Chattahoochee and Flint Rivers, 104 mi	N.D.	N.D.

Table EIR 57. Status of developments of Regional Impact (DRI) for 1973, 1974, 1975, 1976, 1977, 1978, 1979, and 1980a (Florida Department of Community Affairs 1980b).

County	Name	Type of development	Determination
1973			
Okaaloosa	Gulf-Tex Properties, Inc. Shopping center for Destin, FL	Residential Shopping center	DRI 8-2-73 DRI 10-11-73
1974			
Bay	Guy Rogers Marine Gulf Coast Community Hospital	Port facility Hospital	Not a DRI DRI
Escambia	Pensacola Greyhound Racing Diamondhead Perdido Key	Attractions Residential	Not a DRI Not a DRI
Okaaloosa	Laguna Beach to Destin transmission line	Transmission line	DRI
Walton	Juniper Lake Estates	Residential	DRI
1975			
Escambia	Regional Office Center Innerarity Island	Office Residential	Not a DRI Not a DRI
	Pensacola-Escambia Governmental Center	Office	Not a DRI
	Belvedere Park, Unit 7	Residential	Not a DRI
	Pensacola Jr College West Campus	School	DRI
Santa Rosa	Navarre Pass	Canal	Not a DRI

Continued

Table EIR 57 . Concluded.

County	Name	Type of development	Determination
1976	Pensacola Regional Airport	Airport	DRI
	Unnamed residential	Residential	DRI
	Lake Juniper Estates	Residential	No determination
	Industrial Park	Airport, industry	DRI
1977			
		Petroleum storage Attractions	DRI Not a DRI
1978	Belcher Oil Co. Century III Civic Convention Center		
	Pretty Bayou Tract	Residential	Not a DRI
1979			
	Hi Octane Terminal	Petroleum storage	Not a DRI
1980			
	University of West Florida, Panama City Branch Campus	School	Not a DRI
	Pitts Slip Marina	Port facility	Not a DRI
	Ellyson Progress Park and Job Opportunity Center	Attractions, industry and office	DRI
	Bayou Chico Marina	Port facility	DRI

Table EIR 58. Developments of Regional Impact (DRI), type, size, and status for fiscal years 1973-74, 1974-75, 1975-76, 1976-77, 1977-78 and 1978-79 as of 10 October 1980 (Florida Department of Community Affairs 1980b).

County	Name	Type	Size	Status
FY 1973-74				
Gulf	Cape San Blas Marina	Residential Port	10,000 d.u. ^a N.D.	90-day notice expired 90-day notice expired
Okaloosa	unnamed	Shopping	400,000 ft ²	90-day notice expired
	Santa Rosa Mall	Shopping	494,409 ft ²	Approved with conditions
Walton	Oakwood Estates Unit 5	Residential	302 d.u.	To be submitted
	Oakwood Estates Unit 7	Residential	7,290 d.u.	Pending
	Sandestin	Residential	8,000 d.u.	Approved with conditions
FY 1974-75				
Bay	Venture Bay Resort	Residential	1,000 D.U.	Withdrawn
	Panama City Mall	Shopping	690,000 ft ²	Approved with conditions
Franklin	Villages of St. George	Residential	3,000 d.u.	Withdrawn
Gulf	Christie's Beach	Residential	316 d.u.	90-day notice expired
	St. Joseph Bay Estates	Residential	2,000 d.u.	To be submitted
Walton	Grayton Dunes	Residential	3,343 d.u.	Approved
FY 1975-76				
Escambia	Pensacola Junior College West Campus	School		Approved
Okaloosa	Raintree Inter City Bank	Residential	806 d.u.	Approved with conditions
				Continued

Table EIR 58 . Concluded .

County	Name	Type	Size	Status
FY 1976-77				
Franklin Okaloosa	St. Georges Plantation Blue Water	Residential Residential	831 d.u. 5,579 d.u.	Approved with conditions Approved with conditions
FY 1978-79				
Bay	Whitaker Oil Terminal expansion	Oil	490 tbb ^b	Approved with conditions
Escambia	Relocate tankage port Pensacola Terminal	Oil	155 tbb ^b	Approved with conditions

^a Dwelling units.
^b Thousand barrels.

Table EIR 59. Location of permanent network stations^a in northwest Florida (Florida Department of Environmental Regulation, Bureau of Water Management 1979c).

Northwest area	Streams		
	Station Number	Northcentral area	Station Number
Apalachicola River	31010022	Dunns Creek	20030212
Aucilla River	22040002	Oklawaha River mid	20020001
Balckwater River	33030001	Oklawaha River	20020012
Chipola River	31020012	Oklawaha River low	20020071
Choctawhatchee River up	32020001	Ortega River	20020079
Choctawhatchee River mid	32020007	Santa Fe River	21030004
Escambia River up	33020001	St. Johns River mid	20030213
Escambia River low	33020009	St. Johns River low	20010002
Ochlocknee River	22020006	St. Marys River up	19010002
Perdido River	33010003	St. Marys River low	19010001
Yellow River	33040004	Suwanee River up	21020006
		Suwanee River mid	21020035
		Suwanee River low	21020031
		Tomoka River	27010023
		Withlacoochee River up	23010455
		Withlacoochee River mid	23010038
		Withlacoochee River low	23010030

Northwest area	Estuaries		
	Station Number	Northcentral area	Station Number
Apalachicola Bay	31010C33	Amelia River up	19020005
Choctawhatchee Bay	32010I14	Amerlia River	19020013
East Bay	33030C30	Halifax River	27010037
Escambia Bay	33020C11	Matanzas River	27010097
Perdido Bay	330100C6	St. Johns River	20030002
St. Andrew Bay	32020J14		
St. Joseph Bay	32030W41		

Northwest	Lakes		
	Station Number	Northcentral	Station Number
Lake Seminole	31010007	Lake George	20030373

^a Established in 1973 for the purpose of monitoring water quality in Florida's lakes, streams, and estuaries.

Table EIR 60. Sewage treatment capacity needs and costs through the year 2000 (Department of Environmental Regulation, Office of Economic Analysis 1981d).

County	Population ^a growth rate (percent)	Growth in design capital (Mgal/d)	Number of facilities ^b expected	Single ^b plants capital costs (\$ millions)	Estimated total ^c capital costs (\$ millions)
Bay	2.50	3.99	28	6.21	17.14
Escambia	2.10	9.41	20	11.29	27.89
Franklin	2.50	0.55	6	1.57	2.66
Gulf	2.50	0.13	1	0.57	0.49
Okaloosa	2.10	5.55	11	7.82	16.13
Santa Rosa	2.10	1.49	8	3.13	5.83
Walton	2.50	0.61	5	1.68	2.76
Region	N.D.	21.73	79	32.27	72.90
Florida	N.D.	1,366.82	4,243	936.04	4,007.72

^a University of Florida Bureau of Economic and Business Research, Population Divisions forecast.

^b Assumes historical mean for each county.

^c Assumes that total capacity as one plant using EPA construction costs curve (cost = 1.77 (design) .696) in 1981 dollars.

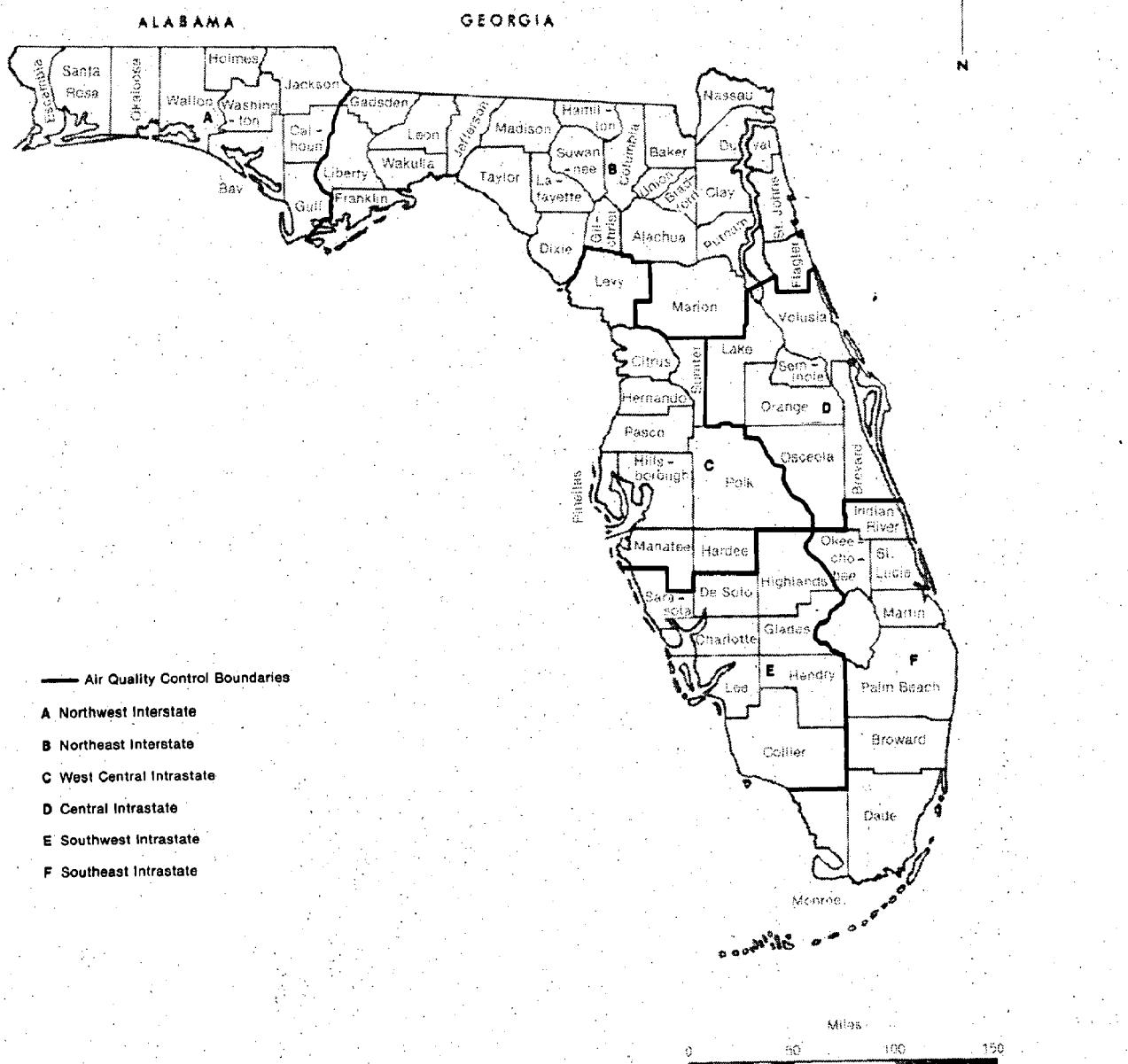


Figure 26. Federal air quality control regions (Florida Power and Light Co., 1979).

Table EIR 61. National and Florida ambient air quality standards^a
 (Florida Department of Environmental Regulation, Bureau of Air Quality
 Management 1980e).

Pollutant	Time frame	Primary standards	Secondary ^b standards	Florida standards
Particulate matter	annual (geometric mean ^c) 24-hour	75 ug/m ³ 260 ug/m ³	60 ug/m ³ 150 ug/m ³	60 ug/m ³ 150 ug/m ³
Sulfur oxides	annual (arithmetic mean ^d) 24-hour 3-hour ^b	80 ug/m ³ (0.03 ppm) ^e 365 ug/m ³ (0.14 ppm)	150 ug/m ³ (.02 ppm) ₃ 260 ug/m ³ (0.1 ppm) ₃ 1300 ug/m ³	150 ug/m ³ (0.02 ppm) ₃ 260 ug/m ³ (0.1 ppm) ₃ 1300 ug/m ³ (0.5 ppm)
Carbon monoxide	8-hour ^b 1-hour ^b	10 ug/m ³ (9 ppm) ₃ 100 ug/m ³ (35 ppm)	(same as primary) (same as primary)	(same as primary) (same as primary)
Nitrogen dioxide ^f	annual (arithmetic mean)	100 ug/m ³ (0.05 ppm)	(same as primary)	(same as primary)
Photochemical oxidants ^g	1-hour ^b	235 ug/m ³	(same as primary)	160 ug/m ³ (0.08 ppm)
Hydrocarbons ^h (nonmethane)	3-hour (6 to 9 a.m.)	160 ug/m ³ (0.24 ppm)	(same as primary)	(same as primary)

^aThe air quality standards and a description of the Federal Reference Methods (FRM) were published on April 30, 1971, in 42 CFR 410, recodified to 40 CFR 50 on November 25, 1972. The new FRM for nitrogen dioxide was published on December 1, 1976, as 40 CFR 50.

^bNot to be exceeded more than once a year.

^cGeometric mean is a measure of central tendency. It is the nth root of the product of n individual data values recorded during the given period.

^dArithmetic mean is the most common measure of the central tendency. It is the sum of the data collected during the given period divided by the number of observations in the same period.

^eParts per million.

^fChemiluminescence has been established as the FRM and the sodium arsenite and triethanolamine guaiacol sulfite (TGS) methods have been identified as equivalent methods.

^gThe FRM measures O₃ (ozone).

^hThe hydrocarbon HC standard is a guide to devising State implementation plans to achieve the oxidant standard. The HC standard does not have to be met if the oxidant standard is met.

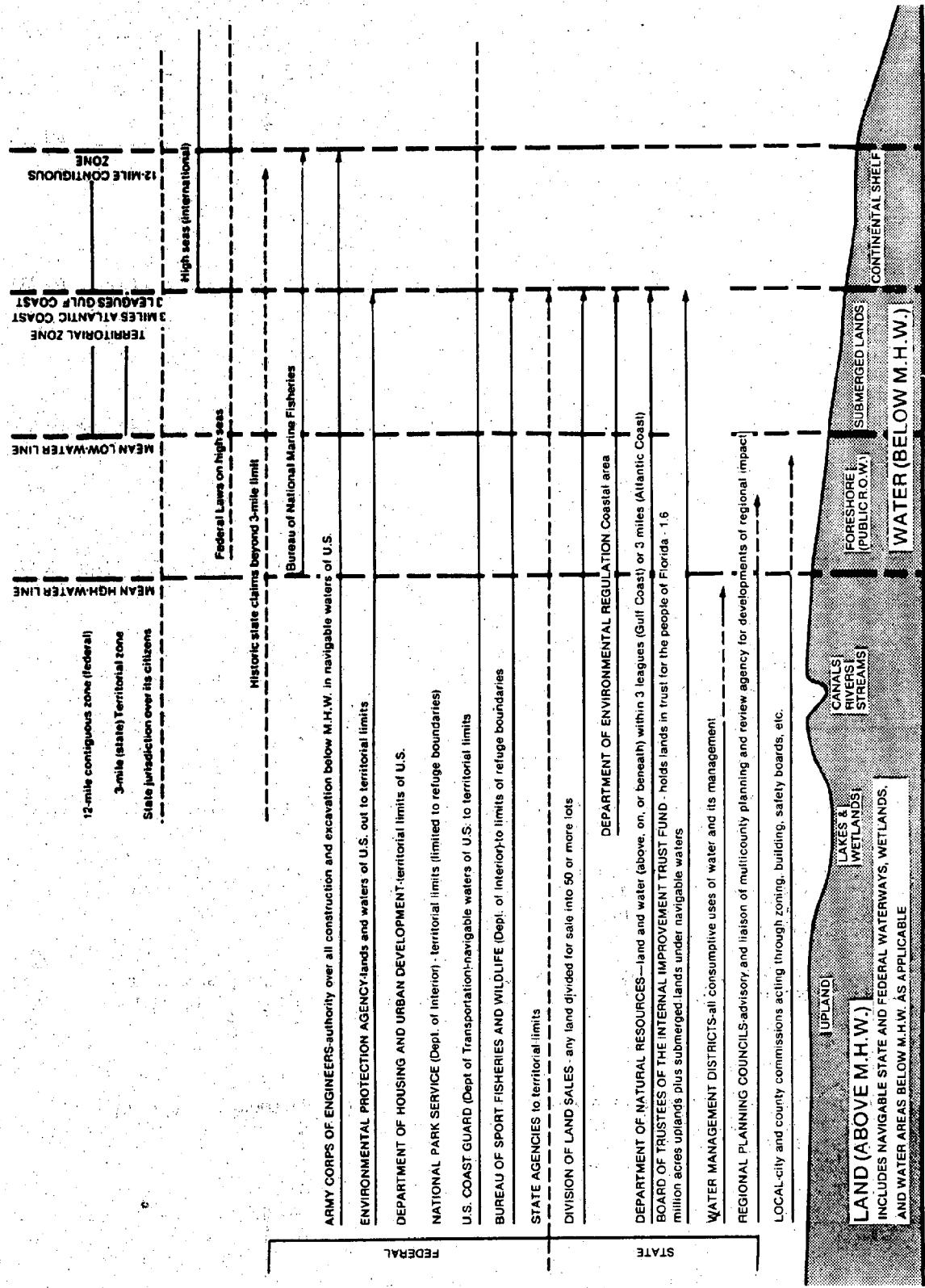


Figure 27. Jurisdictional agency interrelationships in coastal areas (Veri et al. 1975).

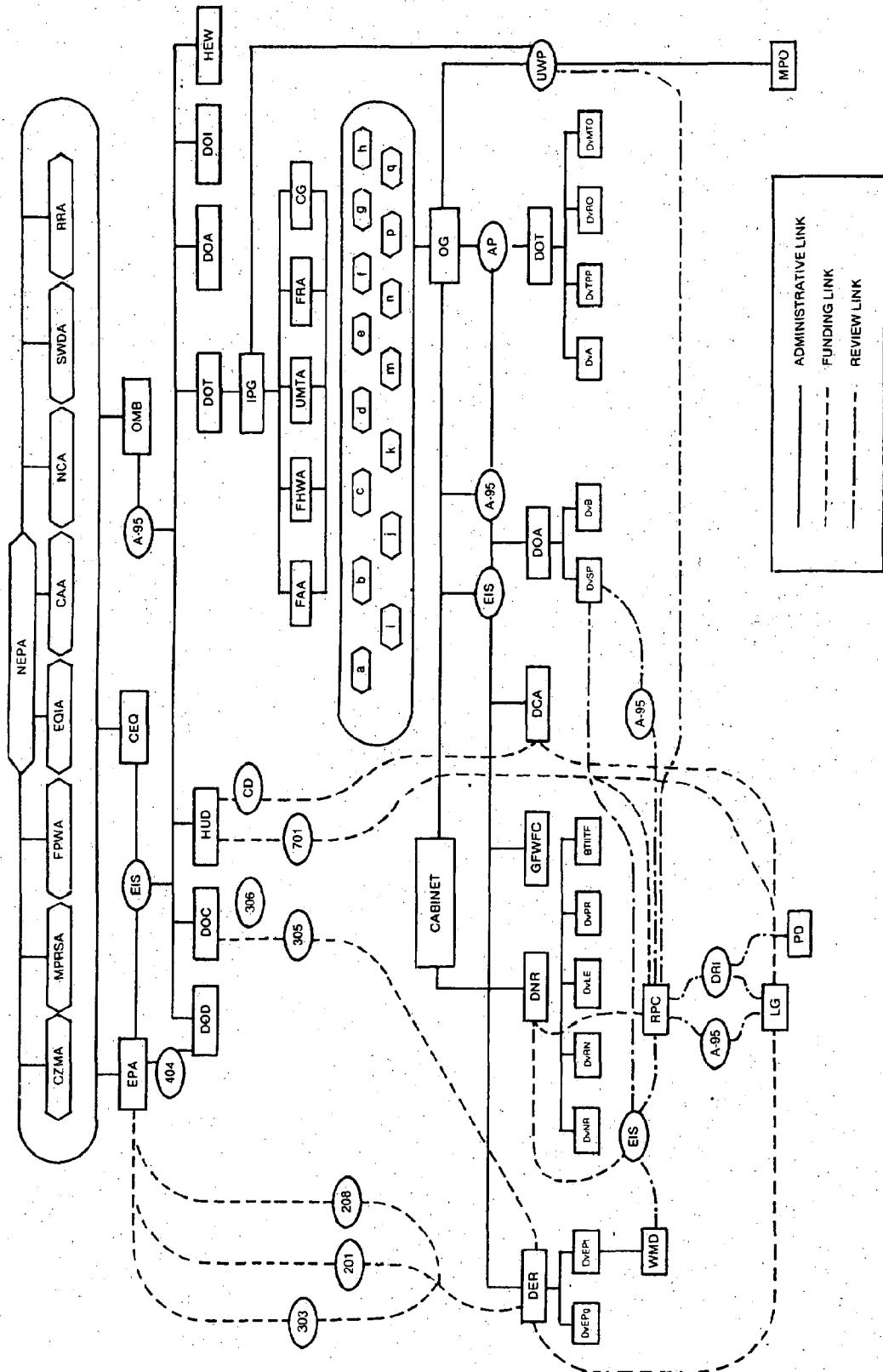


Figure 28. Interrelationships of agencies in the environmental review process in transportation planning (South Florida Regional Planning Council 1977) Continued.

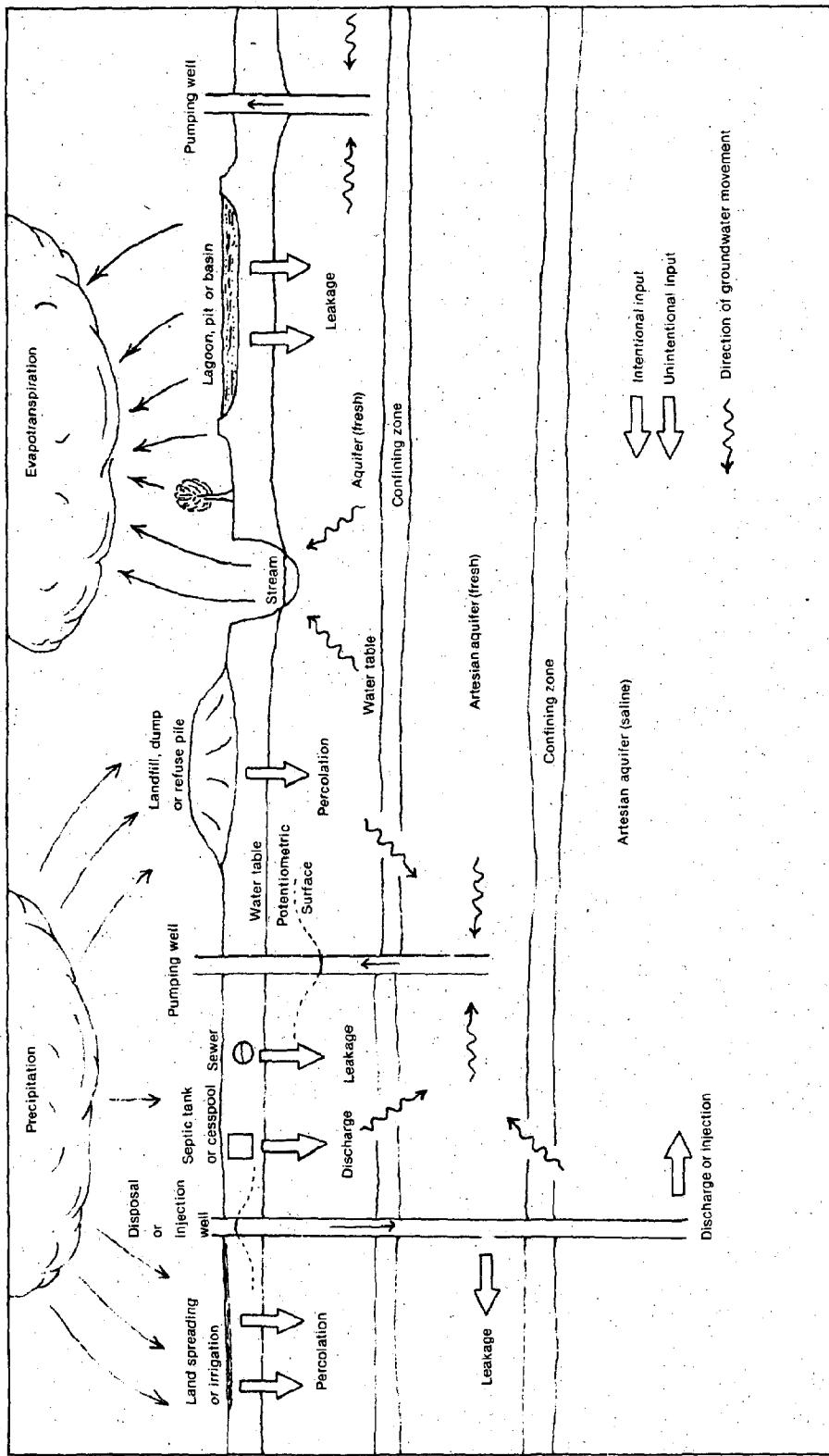


Figure 29. Contamination of the groundwater system by waste disposal practices (Environmental Protection Agency 1977)

FEDERAL ENVIRONMENTAL LAWS

NEPA	National Environmental Policy Act of 1969	a Florida Air and Water Pollution Control Act
EQIA	Environmental Quality Improvement Act of 1970	b The Environmental Protection Act of 1971
FWPA	The Federal Water Pollution Act Amendments of 1972	c Oil Spill Prevention and Pollution Control
CAA	The Clean Air Act	d Florida Electrical Power Plant Siting Act
NCA	Noise Control Act of 1972	e The Florida Litter Law of 1971
CZMA	Coastal Zone Management Act of 1972	f State Bond Program and Sewage Treatment Revolving Loan Program
MPRSA	The Marine Protection, Research and Sanctuaries Act of 1972	g Trustees of the Internal Improvement Trust Fund
SWDA	Solid Waste Disposal Act, 1965	h Land Conservation Act of 1975
RRA	Resource Recovery Act of 1970	i Environmental Reorganization Act of 1975
EPA	Environmental Protection Agency	j Resource Recovery and Management Act
CEQ	Council on Environmental Quality	k Florida Water Resources Act of 1972
OMB	Office of Management and Budget	l Florida Water Pollution Control and Sewage Treatment Plant Grant Act of 1970
HUD	Department of Housing and Urban Development	m The Florida Environmental Land and Water Management Act of 1972
DOC	Department of Commerce	n Florida State Comprehensive Planning Act of 1972
DOD	Department of Defense (U.S. Army Corps of Engineers)	o Florida State Comprehensive Planning Act of 1975
DOT	Department of Transportation	p Local Government Comprehensive Planning Act
IPG	Intermodal Planning Group	q
DOA	Department of Agriculture	r
DOI	Department of Interior	s
HEW	Department of Health, Education and Welfare	t
FAA	Federal Aviation Administration	u
FRA	Federal Railroad Administration	v
FHWA	Federal Highway Administration	w
UMTA	Urban Mass Transit Administration	x
CG	Coast Guard	y

FEDERAL AGENCIES

DER	Department of Environmental Regulation
DvEPg	Division of Environmental Programs
DvEPt	Division of Environmental Permitting
WMD	Water Management District
DCA	Department of Community Affairs
GFWFC	Game and Freshwater Fish Commission
DNR	Department of Natural Resources
BTITF	Board of Trustees of the Internal Improvement Trust Fund
DvMR	(Division of State Lands)
DvRN	Division of Marine Resources
DvLe	Division of Law Enforcement
DvPR	Division of Parks and Recreation
DOA	Department of Administration
DvSP	Division of State Planning
DvB	Division of Budget
DOT	Department of Transportation
DvA	Division of Administration
DvTPP	Division of Transportation Planning and Programming
DvRO	Division of Road Operations
DvMTO	Division of Mass Transit Operations
OG	Office of the Governor

FLORIDA ENVIRONMENTAL LAWS

- a Florida Air and Water Pollution Control Act
- b The Environmental Protection Act of 1971
- c Oil Spill Prevention and Pollution Control
- d Florida Electrical Power Plant Siting Act
- e The Florida Litter Law of 1971
- f State Bond Program and Sewage Treatment Revolving Loan Program
- g Trustees of the Internal Improvement Trust Fund
- h Land Conservation Act of 1975
- i Environmental Reorganization Act of 1975
- j Resource Recovery and Management Act
- k Florida Water Resources Act of 1972
- l Florida Water Pollution Control and Sewage Treatment Plant Grant Act of 1970
- m The Florida Environmental Land and Water Management Act of 1972
- n Florida State Comprehensive Planning Act of 1972
- o Florida State Comprehensive Planning Act of 1975
- p Local Government Comprehensive Planning Act

FLORIDA AGENCIES

DER	Department of Environmental Regulation
DvEPg	Division of Environmental Programs
DvEPt	Division of Environmental Permitting
WMD	Water Management District
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GFWFC	Game and Freshwater Fish Commission
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DvA	Division of Administration
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FLORIDA AGENCIES

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DvA	Division of Administration
DvTPP	Division of Transportation Planning and Programming
DvRO	Division of Road Operations
DvMTO	Division of Mass Transit Operations
OG	Office of the Governor

LOCAL AND REGIONAL AGENCIES

RPC	Regional Planning Council
LG	Local Government Agencies
MPO	Metropolitan Planning Organization
PD	Private Developers

Figure 29. Concluded.

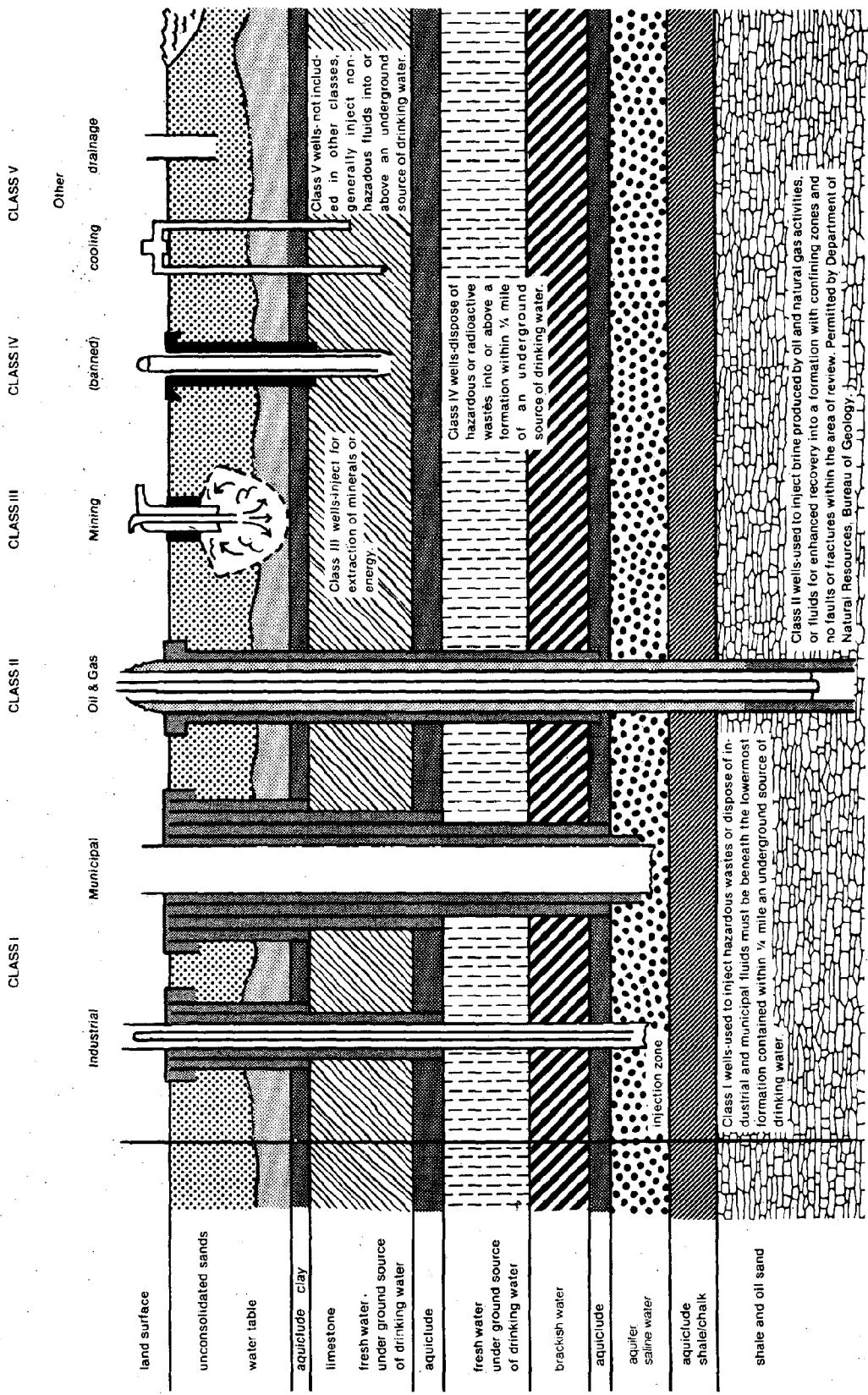


Figure 30. Underground injection control program classification of wells (Florida Department of Environmental Regulation 1981d).

PERMITTING AND PROJECT REVIEW PROGRAMS		DEPARTMENT OF ENVIRONMENTAL MANAGEMENT									
		DOA		DNR		WMD		DOS		DVCA	
LAND AND WATER DEVELOPMENT ACTIVITIES	Air pollution sources	DER	DER	DER	DER	DOS	WMD	DOS	DOA	DNR	DVCA
	Airports	DER	DER	DER	DER	DOS	WMD	DOS	DOA	DNR	DVCA
Amusement & recreation facilities	DER	DER	DER	DER	DER	DNR	DNR	DNR	DNR	DNR	DVCA
Animal & poultry confinement feeding facilities	DER	EPA	DER	DER	DER	DNR	DNR	DNR	DNR	DNR	DVCA
Artificial recharge			DER								
Barricades & fences in wetlands	COE	DER									
Beach restoration	COE	DER									
Boat basins	COE	DER									
Boat ramps	COE	DER									
Boat slips	COE	DER									
Breakwaters	DER					DNR	DNR	DNR	DNR	DNR	DVCA
Bridges	CG							DOS	DOS	DNR	DNR
Bulkheads, shoreline	COE	DER				DNR	DNR	DOS	DOS	DNR	DNR
Burning, open										DACS	DER
Cables, overhead	COE	CG									WMD
Cables subaqueous	COE	DER								DOS	DOS

Figure 31. Matrix of State Agencies involved in land development control (Florida Department of Environmental Regulation 1981c). Continued.

Figure 31. Matrix of State Agencies involved in land development control (Florida Department of Environmental Regulation 1981c).
Continued.

PERMITTING AND PROJECT REVIEW PROGRAMS							
LAND AND WATER DEVELOPMENT ACTIVITIES		Dredging, wetlands	COE DER	DER	DER	DER	DER
Dredging for borrow		COE DER					
Dredging channels and berths		COE DER					
Dredging, rigs		COE DER					
Dredging maintenance		COE DER					
Dredging, spoil disposal	Dredge and Fill	COE DER	DER				
Drilling							
Electrical power plant	EPA DER	DER	DER	DER	DER	DER	DER
Electrical transmission lines	DER						
Excavation, prehistoric or historic sites	DER						
Federally funded and assisted projects						DNR	
Filling, site development	COE DER						
Filling, wetlands	COE DER						
Flood control works	COE DER						
Gages	COE DER						
Groins and jetties	COE DER					DNR	
Impacts of Surface Water							
Management & Storage of Subdivided Lands							
Management & Storage of Surface Water							
Management & Storage of Water Wells							
Management & Recharge of Surface Water							
Marshes & Artificial Recharge							
Open Burning							
Oil and Gas Wells							
Pollutants & Oil Spills							
Protection of Historic Sites & Properties							
Protection of Subdivided Lands							
Quicksand & Co-ops							
Consumptive Uses of Water							
Management & Storage of Water							
State Lands							
Mined Lands Reclamation							
Oil and Gas Wells							
Pollutants & Oil Spills							
Power Plant and Trans-mission Line Splicing							
Air Quality							
Coastal Construction							
Individual Sewage Disposal							
Solid and Hazardous Waste							
Well Drilling and Use (DER)							
Private and Public Water Systems							
Public Drinking							
National Pollution Discharge Elimination System							
Water Pollution Sources							
Water Treatment Systems							
Private and Public Water Systems							
Well Drilling							
National Pollution Discharge Elimination System							
Water Treatment Sources							
Water Treatment Systems							
Private and Public Water Systems							
Well Drilling and Use (DER)							
Solid and Hazardous Waste							
Individual Sewage Disposal							
Air Quality							
Coastal Construction							
Transfer of Pollutants & Oil Spills							
Power Plant and Transmission Lines							
Mined Lands Reclamation							
Oil and Gas Wells							
State Lands							
Mined Lands Reclamation							
Historic Sites & Properties							
Revolving Subdivided Lands							
Condominiums & Co-ops							
Consumptive Uses of Water							
Management & Storage of Water							
Water Wells							
Artificial Recharge							
Works of the District							
10-Year Site Plans							
Critical Areas							
Development of Regional Impact							

Figure 31. Matrix of State Agencies involved in land development control (Florida Department of Environmental Regulation 1981c). Continued:

PERMITTING AND PROJECT REVIEW PROGRAMS									
LAND AND WATER DEVELOPMENT ACTIVITIES		Highway construction		Hospitals		Houses		Household garbage site	
Impoundments	DER			DERS				DER	
Incinerator								DER	
Industrial, air emissions								DER	
Industrial, discharge to surface water	DER	EPA	DER					DER	
Industrial, discharge to groundwater	DER							DER	
Industrial, hazardous waste disposal								DER	
Industrial, plants and parks	DER	EPA	DER					DER	
Jetties	COE DER							DNR	
Landfill	DER							DER	
Land sales									
Land spreading	DER							DER	
Land clearing and burning								DER DACS	
Cultural Areas									
10-Year Site Plans									
Environmental Impact Statement									
Development of Regional Impact									
DVCA									

Figure 31. Matrix of State Agencies involved in land development control (Florida Department of Environmental Regulation 1981c). Continued.

LAND AND WATER DEVELOPMENT ACTIVITIES		Dredge and Fill	Water Pollution Sources	National Pollutant Discharge Elimination System	Public Drinking Water Systems	Private and Public Water Systems	Well Drilling and Use (DER)	Solid and Hazardous Waste	Individual Sewage Disposal	Air Quality	Coastal Construction	Transfer of Pollutants & Oil Spills	Oil and Gas Wells	State Lands	Open Burning	Historic Sites & Properties	Reg. of Subdivided Lands	Condos & Co-ops	Consumptive Uses of Water	Management & Storage of Surface Water	Water Wells	3 Artificial Recharge	A-95 Cleathouse	Environmental Impact Statement	10-Year Site Plans	Critical Areas	Development of Regional Impact
Levees		COE DER																									
Maintenance dredging		COE DER																									
Mariculture		COE DER																									
Marinas		COE DER																									
Const. of any new transmission line																											
Marine platforms		COE DER																									
Marine railroads		COE DER																									
Mining operations		COE DER																									
Mining phosphate ponds, dams		DER																									
Mining, reclamation																											
Mining in water and wetlands		COE DER																									
Mooring buoys and pilings		COE DER																									
Navigation aids		COE DER																									
Navigation channels		COE DER																									
Office parks																											
Oil & gas wells																											

Figure 31. Matrix of State Agencies involved in land development control (Florida Department of Environmental Regulation 1981c). Continued.

Figure 31. Matrix of State Agencies involved in land development control (Florida Department of Environmental Regulation 1981c). *Continued.*

Figure 31. Matrix of State Agencies involved in land development control (Florida Department of Environmental Regulation 1981c).
Continued.

Figure 31. Matrix of State Agencies involved in land development control (Florida Department of Environmental Regulation 1981c). Continued.

		PERMITTING AND PROJECT REVIEW PROGRAMS																
LAND AND WATER DEVELOPMENT ACTIVITIES		Sewage plant construction	Sewage polishing ponds	Shopping centers	Shoreline protection	Stripping, bailing plant	Signs in water and wetlands	Ski ramps	Spray irrigation	Stilt houses	Stormwater control	Stormwater disposal	Storage of pollutants	Subdivision of lands	Transfer of pollutants	Transfer station for solid waste	Tunnels, underwater	DVCA
		DER	DER	DER	DER	DER	DER	DER	DER	DER	DER	DER	DNR	DNR	DNR	DNR	DOS	
Development of Critical Areas	10-Year Site Plans	Environmental Impact Statement	A-85 Cleaninghouse	Works of the District	Water Wells & Artificial Recharge	Management & Storage of Surface Water	Conservative Uses of Water	Reg. of Subdivided Lands	Historic Sites & Properties	Open Burning	Mined Lands Recclamation	State Lands	WMD	WMD	WMD	WMD	WMD	
Development of Regional Impact	Regional Resource Management	10-Year Site Plans	A-85 Cleaninghouse	Works of the District	Water Wells & Artificial Recharge	Management & Storage of Surface Water	Conservative Uses of Water	Reg. of Subdivided Lands	Historic Sites & Properties	Open Burning	Mined Lands Recclamation	State Lands	WMD	WMD	WMD	WMD	WMD	

Figure 31. Matrix of State Agencies involved in land development control (Florida Department of Environmental Regulation 1981c).
Continued.

PERMITTING AND PROJECT REVIEW PROGRAMS									
LAND AND WATER DEVELOPMENT ACTIVITIES	Dredge and Fill	Water pollution sources	National Pollutant Discharge Elimination System	Public Draining	Private and Public Water Systems	Well Drilling	Air Quality	Power Plant and Trans-mission Line Siting	Coastal Construction
Use of state lands									
Volume reduction plant									
Water, consumptive use									
Water supply system	DER	DHRS				DOS			
Wells, potable water supply						DOS			
Wells, disposal	DER	DER				DNR			
Wells, oil and gas						DER			
Yard trash sites					DER	DER			
Sale, creation & operation of residential condos									DBR
Sale, creation & operation of residential co-ops									DBR
DOS	Department of State								EPA
DNR	Department of Natural Resources								Environmental Protection Agency
DVCA		Department of Veterans and Community Affairs							DER
DHRS		Department Health and Rehabilitative Services							Department of Environmental Regulation
PSC	Public Service Commission								WMD
DBR	Department of Business Regulation								Water Management District
COE	U.S. Army Corps of Engineers								DOA
									Department of Administration

Figure 31. Matrix of State Agencies involved in land development control (Florida Department of Environmental Regulation 1981c). Concluded.

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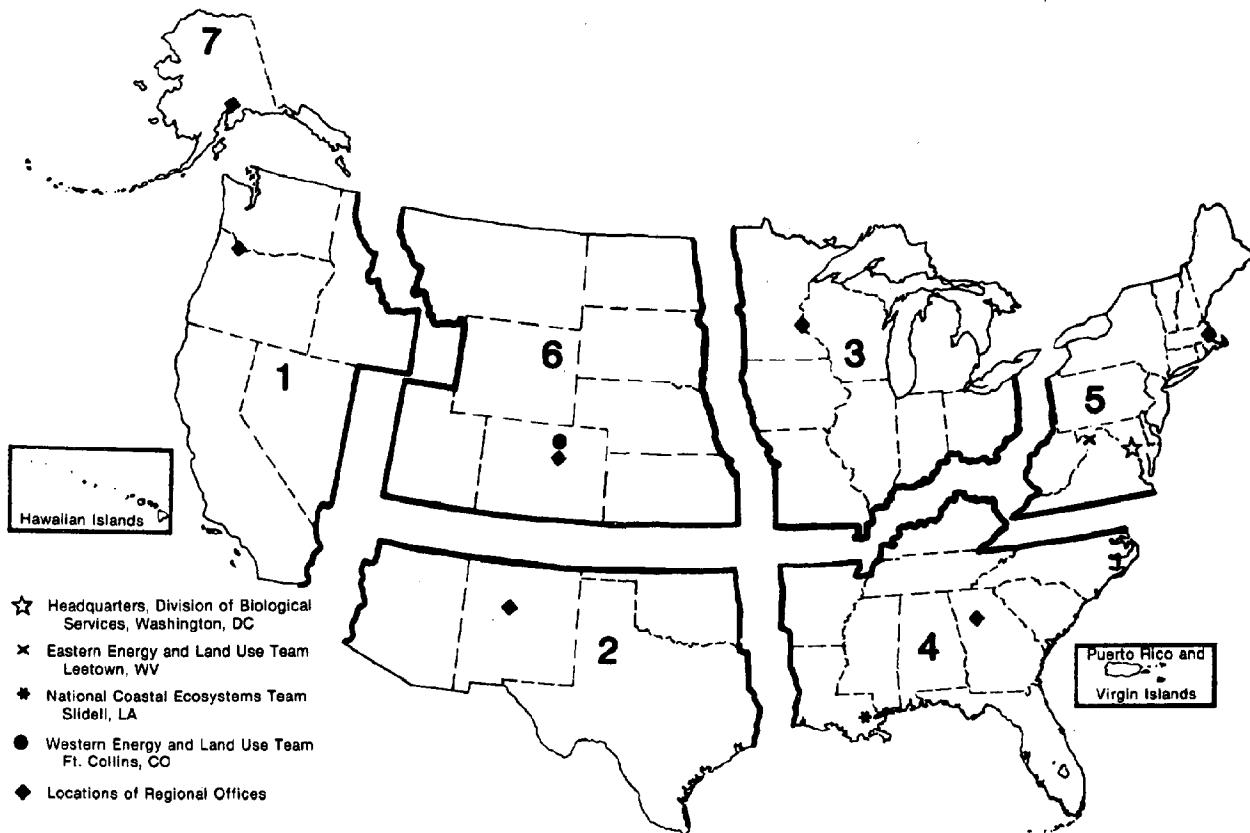
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DEPARTMENT OF THE INTERIOR U.S. FISH AND WILDLIFE SERVICE



As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to assure that their development is in the best interests of all our people. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.



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